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<110> Avalon Pharmaceuticals

<120> Cancer-Linked Gene as Target for Chemotherapy

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<151> 2002-06-04

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cgtcctgccc	aaagcaaagg	gaagactgag	gaggagtgtc	agaactacgt	gcgagtcctg	720
atcgctggcc	gccggaaagg	gttcatgtgt	ggaaccaatg	cctttcccc	catgtgcacc	780
agcagacagg	tggggaaacct	cagccggact	actgagaaga	tcaatgtgt	ggcccgctgc	840
ccctatgacc	cacgcccacaa	ctccacagct	gtcatctct	cccaggggga	gctctatgca	900
gccacgggtca	tcgacttctc	aggtcgggac	cctgccatct	accgcagcc	gggcagtggg	960
ccaccgcttc	gcactgccc	atataactcc	aagtggctta	atgagccaaa	cttcgtggca	1020
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tgtggacgca	ccgtgtactc	tcgcgtggcc	cgcgtgtca	agaatgacgt	ggggggccga	1140
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caactatcaac	gcacccgttc	ctgcaccagc	cccgccaccc	ccccagggtg	ggacatctgt	3000
ctcgggctgc	acacggagga	ggcactatgt	gccacacagg	cctgcccaga	aggctggctg	3060
ccctggctcg	agtggagtaa	gtgcactgac	gacggagccc	agagccgaag	ccggcactgt	3120
gaggagtc	tcccagggtc	cagcgcmtgt	gtggaaaca	gcagccagag	ccgcccctgc	3180
ccctacagcg	agattcscgt	catctgcaca	gcctccagca	tggaggaggc	caccgactgt	3240
gcagggttca	atctcatca	cttgggtggcc	acgggcattct	cctgttctt	gggctctggg	3300
ctcctgaccc	tagcagtgt	cctgtcttgc	cagcactg	agcgtcagtc	ccaggagtcc	3360
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aatgaaaagt	acacacccat	ggaattcaag	accctgaaca	agaataactt	gatccctgtat	3480
gacagagcca	acttctaccc	attgcagcag	accaatgcca	gcgcaggtt	tccacccctg	3540
ccttggaaatc	tatactctac	ccagggcatc	cctctggca	gaggcagtga	gtactggaa	3600
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ggcctctgtg	cctctatgg	gactatcttc	cagttgtc	tcaacagagt	tgttggctga	3780
gacctgcttgc	ggagtctctg	ctggcccttc	atctgttc	gaacacacac	acacacacac	3840
tcacacacgc	acacacaatc	acaatttgc	acagcaacaa	aaaagacatt	gggctgtggc	3900
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<210> 8
<211> 1095
<212> PRT
<213> *Homo sapiens*

<400> 8
Met Val Leu Ala Gly Pro Leu Ala Val Ser Leu Leu Leu Pro Ser Leu
1 5 10 15

Thr Leu Leu Val Ser His Leu Ser Ser Ser Gln Asp Val Ser Ser Glu
20 25 30

Pro Ser Ser Glu Gln Gln Leu Cys Ala Leu Ser Lys His Pro Thr Val

35

40

45

Ala Phe Glu Asp Leu Gln Pro Trp Val Ser Asn Phe Thr Tyr Pro Gly
 50 55 60

Ala Arg Asp Phe Ser Gln Leu Ala Leu Asp Pro Ser Gly Asn Gln Leu
 65 70 75 80

Ile Val Gly Ala Arg Asn Tyr Leu Phe Arg Leu Ser Leu Ala Asn Val
 85 90 95

Ser Leu Leu Gln Ala Thr Glu Trp Ala Ser Ser Glu Asp Thr Arg Arg
 100 105 110

Ser Cys Gln Ser Lys Gly Lys Thr Glu Glu Glu Cys Gln Asn Tyr Val
 115 120 125

Arg Val Leu Ile Val Ala Gly Arg Lys Val Phe Met Cys Gly Thr Asn
 130 135 140

Ala Phe Ser Pro Met Cys Thr Ser Arg Gln Val Gly Asn Leu Ser Arg
 145 150 155 160

Thr Thr Glu Lys Ile Asn Gly Val Ala Arg Cys Pro Tyr Asp Pro Arg
 165 170 175

His Asn Ser Thr Ala Val Ile Ser Ser Gln Gly Glu Leu Tyr Ala Ala
 180 185 190

Thr Val Ile Asp Phe Ser Gly Arg Asp Pro Ala Ile Tyr Arg Ser Leu
 195 200 205

Gly Ser Gly Pro Pro Leu Arg Thr Ala Gln Tyr Asn Ser Lys Trp Leu
 210 215 220

Asn Glu Pro Asn Phe Val Ala Ala Tyr Asp Ile Gly Leu Phe Ala Tyr
 225 230 235 240

Phe Phe Leu Arg Glu Asn Ala Val Glu His Asp Cys Gly Arg Thr Val
 245 250 255

Tyr Ser Arg Val Ala Arg Val Cys Lys Asn Asp Val Gly Gly Arg Phe
 260 265 270

Leu Leu Glu Asp Thr Trp Thr Phe Met Lys Ala Arg Leu Asn Cys
 275 280 285

Ser Arg Pro Gly Glu Val Pro Phe Tyr Tyr Asn Glu Leu Gln Ser Ala
 290 295 300

Phe His Leu Pro Glu Gln Asp Leu Ile Tyr Gly Val Phe Thr Thr Asn
 305 310 315 320

Val Asn Ser Ile Ala Ala Ser Ala Val Cys Ala Phe Asn Leu Ser Ala
 325 330 335

Ile Ser Gln Ala Phe Asn Gly Pro Phe Arg Tyr Gln Glu Asn Pro Arg
 340 345 350

Ala Ala Trp Leu Pro Ile Ala Asn Pro Ile Pro Asn Phe Gln Cys Gly
 355 360 365

Thr Leu Pro Glu Thr Gly Pro Asn Glu Asn Leu Thr Glu Arg Ser Leu
 370 375 380

Gln Asp Ala Gln Arg Leu Phe Leu Met Ser Glu Ala Val Gln Pro Val
 385 390 395 400

Thr Pro Glu Pro Cys Val Thr Gln Asp Ser Val Arg Phe Ser His Leu
 405 410 415

Val Val Asp Leu Val Gln Ala Lys Asp Thr Leu Tyr His Val Leu Tyr
 420 425 430

Ile Gly Thr Glu Ser Gly Thr Ile Leu Lys Ala Leu Ser Thr Ala Ser
 435 440 445

Arg Ser Leu His Gly Cys Tyr Leu Glu Glu Leu His Val Leu Pro Pro
 450 455 460

Gly Arg Arg Glu Pro Leu Arg Ser Leu Arg Ile Leu His Ser Ala Arg
 465 470 475 480

Ala Leu Phe Val Gly Leu Arg Asp Gly Val Leu Arg Val Pro Leu Glu
 485 490 495

Arg Cys Ala Ala Tyr Arg Ser Gln Gly Ala Cys Leu Gly Ala Arg Asp
 500 505 510

Pro Tyr Cys Gly Trp Asp Gly Lys Gln Gln Arg Cys Ser Thr Leu Glu
 515 520 525

Asp Ser Ser Asn Met Ser Leu Trp Thr Gln Asn Ile Thr Ala Cys Pro
 530 535 540

Val Arg Asn Val Thr Arg Asp Gly Gly Phe Gly Pro Trp Ser Pro Trp
 545 550 555 560

Gln Pro Cys Glu His Leu Asp Gly Asp Asn Ser Gly Ser Cys Leu Cys
 565 570 575

Arg Ala Arg Ser Cys Asp Ser Pro Arg Pro Arg Cys Gly Gly Leu Asp
 580 585 590

Cys Leu Gly Pro Ala Ile His Ile Ala Asn Cys Ser Arg Asn Gly Gly
 595 600 605

Arg Gly Pro Arg Gly Ala Ser Trp Ala Ala Val Gln Ala Arg Pro Val
 610 615 620

Ala Ser Gly Phe Gln Val Arg Gln Arg Ser Cys Ser Asn Pro Ala Pro
 625 630 635 640

Arg His Gly Gly Arg Ile Cys Val Gly Lys Ser Arg Glu Glu Arg Phe
 645 650 655

Cys Asn Glu Asn Thr Pro Cys Pro Val Pro Ile Phe Trp Ala Ser Trp
 660 665 670

Gly Ser Trp Ser Lys Cys Ser Ser Asn Cys Gly Gly Met Gln Ser
 675 680 685

Arg Arg Arg Ala Cys Glu Asn Gly Asn Ser Cys Leu Gly Cys Gly Val
 690 695 700

Glu Phe Lys Thr Cys Asn Pro Glu Gly Cys Pro Glu Val Arg Arg Asn
 705 710 715 720

Thr Pro Trp Thr Pro Trp Leu Pro Val Asn Val Thr Gln Gly Gly Ala
 725 730 735

Arg Gln Glu Gln Arg Phe Arg Phe Thr Cys Arg Ala Pro Leu Ala Asp
 740 745 750

Pro His Gly Leu Gln Phe Gly Arg Arg Arg Thr Glu Thr Arg Thr Cys
 755 760 765

Pro Ala Asp Gly Ser Gly Ser Cys Asp Thr Asp Ala Leu Val Glu Val
 770 775 780

Leu Leu Arg Ser Gly Ser Thr Ser Pro His Thr Val Ser Gly Gly Trp
 785 790 795 800

Ala Ala Trp Gly Pro Trp Ser Ser Cys Ser Arg Asp Cys Glu Leu Gly
 805 810 815

Phe Arg Val Arg Lys Arg Thr Cys Thr Asn Pro Glu Pro Arg Asn Gly
 820 825 830

Gly Leu Pro Cys Val Gly Asp Ala Ala Glu Tyr Gln Asp Cys Asn Pro
 835 840 845

Gln Ala Cys Pro Val Arg Gly Ala Trp Ser Cys Trp Thr Ser Trp Ser
 850 855 860

Pro Cys Ser Ala Ser Cys Gly Gly His Tyr Gln Arg Thr Arg Ser
 865 870 875 880

Cys Thr Ser Pro Ala Pro Ser Pro Gly Glu Asp Ile Cys Leu Gly Leu
 885 890 895

His Thr Glu Glu Ala Leu Cys Ala Thr Gln Ala Cys Pro Glu Gly Trp
 900 905 910

Ser Pro Trp Ser Glu Trp Ser Lys Cys Thr Asp Asp Gly Ala Gln Ser
 915 920 925

Arg Ser Arg His Cys Glu Glu Leu Leu Pro Gly Ser Ser Ala Cys Ala
 930 935 940

Gly Asn Ser Ser Gln Ser Arg Pro Cys Pro Tyr Ser Glu Ile Arg Val
 945 950 955 960

Ile Leu Pro Ala Ser Ser Met Glu Glu Ala Thr Asp Cys Ala Gly Phe
 965 970 975

Asn Leu Ile His Leu Val Ala Thr Gly Ile Ser Cys Phe Leu Gly Ser
 980 985 990

Gly Leu Leu Thr Leu Ala Val Tyr Leu Ser Cys Gln His Cys Gln Arg
 995 1000 1005

Gln Ser Gln Glu Ser Thr Leu Val His Pro Ala Thr Pro Asn His

1010	1015	1020
Leu His Tyr Lys Gly Gly	Thr Pro Lys Asn Glu	Lys Tyr Thr
1025	1030	1035
Pro Met Glu Phe Lys Thr Leu	Asn Lys Asn Asn Leu	Ile Pro Asp
1040	1045	1050
Asp Arg Ala Asn Phe Tyr Pro	Leu Gln Gln Thr Asn	Val Tyr Thr
1055	1060	1065
Thr Thr Tyr Tyr Pro Ser Pro	Leu Asn Lys His Ser	Phe Arg Pro
1070	1075	1080
Glu Ala Ser Pro Gly Gln Arg	Cys Phe Pro Asn Ser	
1085	1090	1095

<210> 9
 <211> 1248
 <212> PRT
 <213> Homo sapiens

<400> 9			
Arg Pro Pro His Ser Gln Thr Gly Arg Gln Pro Ile Trp	Leu Ala Pro		
1	5	10	15
Ala Ala Pro Arg Arg Pro Gly Val	Gly Ser Arg Gly Glu	Pro Gly Thr	
20	25	30	
Cys Thr Arg Leu Trp Glu Pro Ala Trp Val Arg Val	Ala Leu Gly Pro		
35	40	45	
Ala Arg Ala Val Val Gly Ala Ser Gly Leu Gln Arg Arg	Trp Gly Pro		
50	55	60	
Gly Thr Gln Ala Trp Arg Arg Arg Arg Thr Ser Glu Ala Glu	Gly Arg		
65	70	75	80
Arg Asp Arg Val Ser Gly Ser Ser Trp Cys Leu Ala Cys	Val Ser Trp		
85	90	95	
Met Pro Cys Gly Phe Ser Pro Ser Pro Val Ala His His	Leu Val Pro		
100	105	110	
Gly Pro Pro Asp Thr Pro Ala Gln Gln Leu Arg Cys Gly	Trp Thr Val		
115	120	125	
Gly Gly Trp Leu Leu Ser Leu Val Arg Gly Leu Leu Pro	Cys Leu Pro		
130	135	140	
Pro Gly Ala Arg Thr Ala Glu Gly Pro Ile Met Val Leu	Ala Gly Pro		
145	150	155	160
Leu Ala Val Ser Leu Leu Pro Ser Leu Thr Leu Leu Val	Ser His		
165	170	175	
Leu Ser Ser Ser Gln Asp Val Ser Ser Glu Pro Ser Ser	Glu Gln Gln		
180	185	190	
Leu Cys Ala Leu Ser Lys His Pro Thr Val Ala Phe Glu	Asp Leu Gln		

195	200	205
Pro Trp Val Ser Asn Phe Thr Tyr Pro Gly Ala Arg Asp Phe Ser Gln		
210	215	220
Leu Ala Leu Asp Pro Ser Gly Asn Gln Leu Ile Val Gly Ala Arg Asn		
225	230	235
Tyr Leu Phe Arg Leu Ser Leu Ala Asn Val Ser Leu Leu Gln Ala Thr		
245	250	255
Glu Trp Ala Ser Ser Glu Asp Thr Arg Arg Ser Cys Gln Ser Lys Gly		
260	265	270
Lys Thr Glu Glu Glu Cys Gln Asn Tyr Val Arg Val Leu Ile Val Ala		
275	280	285
Gly Arg Lys Val Phe Met Cys Gly Thr Asn Ala Phe Ser Pro Met Cys		
290	295	300
Thr Ser Arg Gln Val Gly Asn Leu Ser Arg Thr Thr Glu Lys Ile Asn		
305	310	315
Gly Val Ala Arg Cys Pro Tyr Asp Pro Arg His Asn Ser Thr Ala Val		
325	330	335
Ile Ser Ser Gln Gly Glu Leu Tyr Ala Ala Thr Val Ile Asp Phe Ser		
340	345	350
Gly Arg Asp Pro Ala Ile Tyr Arg Ser Leu Gly Ser Gly Pro Pro Leu		
355	360	365
Arg Thr Ala Gln Tyr Asn Ser Lys Trp Leu Asn Glu Pro Asn Phe Val		
370	375	380
Ala Ala Tyr Asp Ile Gly Leu Phe Ala Tyr Phe Phe Leu Arg Glu Asn		
385	390	395
400		
Ala Val Glu His Asp Cys Gly Arg Thr Val Tyr Ser Arg Val Ala Arg		
405	410	415
Val Cys Lys Asn Asp Val Gly Arg Phe Leu Leu Glu Asp Thr Trp		
420	425	430
Thr Thr Phe Met Lys Ala Arg Leu Asn Cys Ser Arg Pro Gly Glu Val		
435	440	445
Pro Phe Tyr Tyr Asn Glu Leu Gln Ser Ala Phe His Leu Pro Glu Gln		
450	455	460
Asp Leu Ile Tyr Gly Val Phe Thr Thr Asn Val Asn Ser Ile Ala Ala		
465	470	475
480		
Ser Ala Val Cys Ala Phe Asn Leu Ser Ala Ile Ser Gln Ala Phe Asn		
485	490	495
Gly Pro Phe Arg Tyr Gln Glu Asn Pro Arg Ala Ala Trp Leu Pro Ile		
500	505	510
Ala Asn Pro Ile Pro Asn Phe Gln Cys Gly Thr Leu Pro Glu Thr Gly		
515	520	525

Pro Asn Glu Asn Leu Thr Glu Arg Ser Leu Gln Asp Ala Gln Arg Leu
 530 535 540

Phe Leu Met Ser Glu Ala Val Gln Pro Val Thr Pro Glu Pro Cys Val
 545 550 555 560

Thr Gln Asp Ser Val Arg Phe Ser His Leu Val Val Asp Leu Val Gln
 565 570 575

Ala Lys Asp Thr Leu Tyr His Val Leu Tyr Ile Gly Thr Glu Ser Gly
 580 585 590

Thr Ile Leu Lys Ala Leu Ser Thr Ala Ser Arg Ser Leu His Gly Cys
 595 600 605

Tyr Leu Glu Glu Leu His Val Leu Pro Pro Gly Arg Arg Glu Pro Leu
 610 615 620

Arg Ser Leu Arg Ile Leu His Ser Ala Arg Ala Leu Phe Val Gly Leu
 625 630 635 640

Arg Asp Gly Val Leu Arg Val Pro Leu Glu Arg Cys Ala Ala Tyr Arg
 645 650 655

Ser Gln Gly Ala Cys Leu Gly Ala Arg Asp Pro Tyr Cys Gly Trp Asp
 660 665 670

Gly Lys Gln Gln Arg Cys Ser Thr Leu Glu Asp Ser Ser Asn Met Ser
 675 680 685

Leu Trp Thr Gln Asn Ile Thr Ala Cys Pro Val Arg Asn Val Thr Arg
 690 695 700

Asp Gly Gly Phe Gly Pro Trp Ser Pro Trp Gln Pro Cys Glu His Leu
 705 710 715 720

Asp Gly Asp Asn Ser Gly Ser Cys Leu Cys Arg Ala Arg Ser Cys Asp
 725 730 735

Ser Pro Arg Pro Arg Cys Gly Gly Leu Asp Cys Leu Gly Pro Ala Ile
 740 745 750

His Ile Ala Asn Cys Ser Arg Asn Gly Ala Val Asp Pro Val Val Ile
 755 760 765

Val Gly Arg Cys Ala Ala Thr Ser Cys Gly Ile Gly Phe Gln Val Arg
 770 775 780

Gln Arg Ser Cys Ser Asn Pro Ala Pro Arg His Gly Gly Arg Ile Cys
 785 790 795 800

Val Gly Lys Ser Arg Glu Glu Arg Phe Cys Asn Glu Asn Thr Pro Cys
 805 810 815

Pro Val Pro Ile Phe Trp Ala Ser Trp Gly Ser Trp Ser Lys Cys Ser
 820 825 830

Ser Asn Cys Gly Gly Gly Met Gln Ser Arg Arg Arg Ala Cys Glu Asn
 835 840 845

Gly Asn Ser Cys Leu Gly Cys Gly Val Glu Phe Lys Thr Cys Asn Pro
 850 855 860

Glu Gly Cys Pro Glu Val Arg Arg Asn Thr Pro Trp Thr Pro Trp Leu
 865 870 875 880

Pro Val Asn Val Thr Gln Gly Gly Ala Arg Gln Glu Gln Arg Phe Arg
 885 890 895

Phe Thr Cys Arg Ala Pro Leu Ala Asp Pro His Gly Leu Gln Phe Gly
 900 905 910

Arg Arg Arg Thr Glu Thr Arg Thr Cys Pro Ala Asp Gly Ser Gly Ser
 915 920 925

Cys Asp Thr Asp Ala Leu Val Glu Val Leu Leu Arg Ser Gly Ser Thr
 930 935 940

Ser Pro His Thr Val Ser Gly Gly Trp Ala Ala Trp Gly Pro Trp Ser
 945 950 955 960

Ser Cys Ser Arg Asp Cys Glu Leu Gly Phe Arg Val Arg Lys Arg Thr
 965 970 975

Cys Thr Asn Pro Glu Pro Arg Asn Gly Gly Leu Pro Cys Val Gly Asp
 980 985 990

Ala Ala Glu Tyr Gln Asp Cys Asn Pro Gln Ala Cys Pro Val Arg Gly
 995 1000 1005

Ala Trp Ser Cys Trp Thr Ser Trp Ser Pro Cys Ser Ala Ser Cys
 1010 1015 1020

Gly Gly Gly His Tyr Gln Arg Thr Arg Ser Cys Thr Ser Pro Ala
 1025 1030 1035

Pro Ser Pro Gly Glu Asp Ile Cys Leu Gly Leu His Thr Glu Glu
 1040 1045 1050

Ala Leu Cys Ala Thr Gln Ala Cys Pro Glu Gly Trp Ser Pro Trp
 1055 1060 1065

Ser Glu Trp Ser Lys Cys Thr Asp Asp Gly Ala Gln Ser Arg Ser
 1070 1075 1080

Arg His Cys Glu Glu Leu Leu Pro Gly Ser Ser Ala Cys Ala Gly
 1085 1090 1095

Asn Ser Ser Gln Ser Arg Pro Cys Pro Tyr Ser Glu Ile Arg Val
 1100 1105 1110

Ile Leu Pro Ala Ser Ser Met Glu Glu Ala Thr Asp Cys Ala Gly
 1115 1120 1125

Phe Asn Leu Ile His Leu Val Ala Thr Gly Ile Ser Cys Phe Leu
 1130 1135 1140

Gly Ser Gly Leu Leu Thr Leu Ala Val Tyr Leu Ser Cys Gln His
 1145 1150 1155

Cys Gln Arg Gln Ser Gln Glu Ser Thr Leu Val His Pro Ala Thr

1160	1165	1170
Pro Asn His Leu His Tyr Lys	Gly Gly Gly Thr Pro	Lys Asn Glu
1175	1180	1185
Lys Tyr Thr Pro Met Glu Phe	Lys Thr Leu Asn Lys	Asn Asn Leu
1190	1195	1200
Ile Pro Asp Asp Arg Ala Asn	Phe Tyr Pro Leu Gln	Gln Thr Asn
1205	1210	1215
Val Tyr Thr Thr Tyr Tyr	Pro Ser Pro Leu Asn	Lys His Ser
1220	1225	1230
Phe Arg Pro Glu Ala Ser Pro	Gly Gln Arg Cys Phe	Pro Asn Ser
1235	1240	1245

<210> 10
 <211> 1150
 <212> PRT
 <213> Homo sapiens

<400> 10			
Ala Ala Ala Pro Phe Pro Asp Arg Pro	Pro Ala His Leu Val Ser Ser		
1	5	10	15
Arg Arg Ser Ala Pro Pro Gly Ser	Arg Glu Pro Arg Gly Thr Gly His		
20	25	30	
Leu His Pro Pro Leu Gly Gly	Leu Leu Pro Cys Leu Pro Pro Gly Ala		
35	40	45	
Arg Thr Ala Glu Gly Pro Ile Met Val	Leu Ala Gly Pro Leu Ala Val		
50	55	60	
Ser Leu Leu Leu Pro Ser Leu Thr Leu Leu Val Ser His Leu Ser Ser			
65	70	75	80
Ser Gln Asp Val Ser Ser Glu Pro Ser	Ser Glu Gln Gln Leu Cys Ala		
85	90	95	
Leu Ser Lys His Pro Thr Val Ala Phe	Glu Asp Leu Gln Pro Trp Val		
100	105	110	
Ser Asn Phe Thr Tyr Pro Gly Ala Arg Asp Phe Ser Gln Leu Ala Leu			
115	120	125	
Asp Pro Ser Gly Asn Gln Leu Ile Val Gly Ala Arg Asn Tyr Leu Phe			
130	135	140	
Arg Leu Ser Leu Ala Asn Val Ser Leu Leu Gln Ala Thr Glu Trp Ala			
145	150	155	160
Ser Ser Glu Asp Thr Arg Arg Ser Cys Gln Ser Lys Gly Lys Thr Glu			
165	170	175	
Glu Glu Cys Gln Asn Tyr Val Arg Val Leu Ile Val Ala Gly Arg Lys			
180	185	190	
Val Phe Met Cys Gly Thr Asn Ala Phe Ser Pro Met Cys Thr Ser Arg			

195

200

205

Gln Val Gly Asn Leu Ser Arg Thr Thr Glu Lys Ile Asn Gly Val Ala
 210 215 220

Arg Cys Pro Tyr Asp Pro Arg His Asn Ser Thr Ala Val Ile Ser Ser
 225 230 235 240

Gln Gly Glu Leu Tyr Ala Ala Thr Val Ile Asp Phe Ser Gly Arg Asp
 245 250 255

Pro Ala Ile Tyr Arg Ser Leu Gly Ser Gly Pro Pro Leu Arg Thr Ala
 260 265 270

Gln Tyr Asn Ser Lys Trp Leu Asn Glu Pro Asn Phe Val Ala Ala Tyr
 275 280 285

Asp Ile Gly Leu Phe Ala Tyr Phe Phe Leu Arg Glu Asn Ala Val Glu
 290 295 300

His Asp Cys Gly Arg Thr Val Tyr Ser Arg Val Ala Arg Val Cys Lys
 305 310 315 320

Asn Asp Val Gly Gly Arg Phe Leu Leu Glu Asp Thr Trp Thr Thr Phe
 325 330 335

Met Lys Ala Arg Leu Asn Cys Ser Arg Pro Gly Glu Val Pro Phe Tyr
 340 345 350

Tyr Asn Glu Leu Gln Ser Ala Phe His Leu Pro Glu Gln Asp Leu Ile
 355 360 365

Tyr Gly Val Phe Thr Thr Asn Val Asn Ser Ile Ala Ala Ser Ala Val
 370 375 380

Cys Ala Phe Asn Leu Ser Ala Ile Ser Gln Ala Phe Asn Gly Pro Phe
 385 390 395 400

Arg Tyr Gln Glu Asn Pro Arg Ala Ala Trp Leu Pro Ile Ala Asn Pro
 405 410 415

Ile Pro Asn Phe Gln Cys Gly Thr Leu Pro Glu Thr Gly Pro Asn Glu
 420 425 430

Asn Leu Thr Glu Arg Ser Leu Gln Asp Ala Gln Arg Leu Phe Leu Met
 435 440 445

Ser Glu Ala Val Gln Pro Val Thr Pro Glu Pro Cys Val Thr Gln Asp
 450 455 460

Ser Val Arg Phe Ser His Leu Val Val Asp Leu Val Gln Ala Lys Asp
 465 470 475 480

Thr Leu Tyr His Val Leu Tyr Ile Gly Thr Glu Ser Gly Thr Ile Leu
 485 490 495

Lys Ala Leu Ser Thr Ala Ser Arg Ser Leu His Gly Cys Tyr Leu Glu
 500 505 510

Glu Leu His Val Leu Pro Pro Gly Arg Arg Glu Pro Leu Arg Ser Leu
 515 520 525

Arg Ile Leu His Ser Ala Arg Ala Leu Phe Val Gly Leu Arg Asp Gly
 530 535 540

Val Leu Arg Val Pro Leu Glu Arg Cys Ala Ala Tyr Arg Ser Gln Gly
 545 550 555 560

Ala Cys Leu Gly Ala Arg Asp Pro Tyr Cys Gly Trp Asp Gly Lys Gln
 565 570 575

Gln Arg Cys Ser Thr Leu Glu Asp Ser Ser Asn Met Ser Leu Trp Thr
 580 585 590

Gln Asn Ile Thr Ala Cys Pro Val Arg Asn Val Thr Arg Asp Gly Gly
 595 600 605

Phe Gly Pro Trp Ser Pro Trp Gln Pro Cys Glu His Leu Asp Gly Asp
 610 615 620

Asn Ser Gly Ser Cys Leu Cys Arg Ala Arg Ser Cys Asp Ser Pro Arg
 625 630 635 640

Pro Arg Cys Gly Gly Leu Asp Cys Leu Gly Pro Ala Ile His Ile Ala
 645 650 655

Asn Cys Ser Arg Asn Gly Ala Val Asp Pro Val Val His Arg Gly Pro
 660 665 670

Leu Cys Ser His Val Leu Trp His Ala Ala Ser Arg Ser Ala Ser Glu
 675 680 685

Val Ala Ala Thr Leu Leu Pro Ala Thr Gly Ala Ala Ser Ala Trp Ala
 690 695 700

Arg Ala Trp Glu Glu Arg Phe Cys Asn Glu Asn Thr Pro Cys Pro Val
 705 710 715 720

Pro Ile Phe Trp Ala Ser Trp Gly Ser Trp Ser Lys Cys Ser Ser Asn
 725 730 735

Cys Gly Gly Gly Met Gln Ser Arg Arg Arg Ala Cys Glu Asn Gly Asn
 740 745 750

Ser Cys Leu Gly Cys Gly Val Glu Phe Lys Thr Cys Asn Pro Glu Gly
 755 760 765

Cys Pro Glu Val Arg Arg Asn Thr Pro Trp Thr Pro Trp Leu Pro Val
 770 775 780

Asn Val Thr Gln Gly Gly Ala Arg Gln Glu Gln Arg Phe Arg Phe Thr
 785 790 795 800

Cys Arg Ala Pro Leu Ala Asp Pro His Gly Leu Gln Phe Gly Arg Arg
 805 810 815

Arg Thr Glu Thr Arg Thr Cys Pro Ala Asp Gly Ser Gly Ser Cys Asp
 820 825 830

Thr Asp Ala Leu Val Glu Val Leu Leu Arg Ser Gly Ser Thr Ser Pro
 835 840 845

His Thr Val Ser Gly Gly Trp Ala Ala Trp Gly Pro Trp Ser Ser Cys
 850 855 860

Ser Arg Asp Cys Glu Leu Gly Phe Arg Val Arg Lys Arg Thr Cys Thr
 865 870 875 880

Asn Pro Glu Pro Arg Asn Gly Gly Leu Pro Cys Val Gly Asp Ala Ala
 885 890 895

Glu Tyr Gln Asp Cys Asn Pro Gln Ala Cys Pro Val Arg Gly Ala Trp
 900 905 910

Ser Cys Trp Thr Ser Trp Ser Pro Cys Ser Ala Ser Cys Gly Gly Gly
 915 920 925

His Tyr Gln Arg Thr Arg Ser Cys Thr Ser Pro Ala Pro Ser Pro Gly
 930 935 940

Glu Asp Ile Cys Leu Gly Leu His Thr Glu Glu Ala Leu Cys Ala Thr
 945 950 955 960

Gln Ala Cys Pro Glu Gly Trp Ser Pro Trp Ser Glu Trp Ser Lys Cys
 965 970 975

Thr Asp Asp Gly Ala Gln Ser Arg Ser Arg His Cys Glu Glu Leu Leu
 980 985 990

Pro Gly Ser Ser Ala Cys Ala Gly Asn Ser Ser Gln Ser Arg Pro Cys
 995 1000 1005

Pro Tyr Ser Glu Ile Arg Val Ile Leu Pro Ala Ser Ser Met Glu
 1010 1015 1020

Glu Ala Thr Asp Cys Ala Gly Phe Asn Leu Ile His Leu Val Ala
 1025 1030 1035

Thr Gly Ile Ser Cys Phe Leu Gly Ser Gly Leu Leu Thr Leu Ala
 1040 1045 1050

Val Tyr Leu Ser Cys Gln His Cys Gln Arg Gln Ser Gln Glu Ser
 1055 1060 1065

Thr Leu Val His Pro Ala Thr Pro Asn His Leu His Tyr Lys Gly
 1070 1075 1080

Gly Gly Thr Pro Lys Asn Glu Lys Tyr Thr Pro Met Glu Phe Lys
 1085 1090 1095

Thr Leu Asn Lys Asn Asn Leu Ile Pro Asp Asp Arg Ala Asn Phe
 1100 1105 1110

Tyr Pro Leu Gln Gln Thr Asn Val Tyr Thr Thr Thr Tyr Tyr Pro
 1115 1120 1125

Ser Pro Leu Asn Lys His Ser Phe Arg Pro Glu Ala Ser Pro Gly
 1130 1135 1140

Gln Arg Cys Phe Pro Asn Ser
 1145 1150

<210> 11
 <211> 1211
 <212> PRT
 <213> Homo sapiens

<400> 11
 Ala Ala Ala Pro Phe Pro Asp Arg Pro Pro Ala His Leu Val Ser Ser
 1 5 10 15

Arg Arg Ser Ala Pro Pro Gly Ser Arg Glu Pro Arg Gly Thr Gly His
 20 25 30

Leu His Pro Pro Leu Gly Val Ser Gly Ser Ser Trp Cys Leu Ala Cys
 35 40 45

Val Ser Trp Met Pro Cys Gly Phe Ser Pro Ser Pro Val Ala His His
 50 55 60

Leu Val Pro Gly Pro Pro Asp Thr Pro Ala Gln Gln Leu Arg Cys Gly
 65 70 75 80

Trp Thr Val Gly Gly Trp Leu Leu Ser Leu Val Arg Gly Leu Leu Pro
 85 90 95

Cys Leu Pro Pro Gly Ala Arg Thr Ala Glu Gly Pro Ile Met Val Leu
 100 105 110

Ala Gly Pro Leu Ala Val Ser Leu Leu Leu Pro Ser Leu Thr Leu Leu
 115 120 125

Val Ser His Leu Ser Ser Ser Gln Asp Val Ser Ser Glu Pro Ser Ser
 130 135 140

Glu Gln Gln Leu Cys Ala Leu Ser Lys His Pro Thr Val Ala Phe Glu
 145 150 155 160

Asp Leu Gln Pro Trp Val Ser Asn Phe Thr Tyr Pro Gly Ala Arg Asp
 165 170 175

Phe Ser Gln Leu Ala Leu Asp Pro Ser Gly Asn Gln Leu Ile Val Gly
 180 185 190

Ala Arg Asn Tyr Leu Phe Arg Leu Ser Leu Ala Asn Val Ser Leu Leu
 195 200 205

Gln Ala Thr Glu Trp Ala Ser Ser Glu Asp Thr Arg Arg Ser Cys Gln
 210 215 220

Ser Lys Gly Lys Thr Glu Glu Cys Gln Asn Tyr Val Arg Val Leu
 225 230 235 240

Ile Val Ala Gly Arg Lys Val Phe Met Cys Gly Thr Asn Ala Phe Ser
 245 250 255

Pro Met Cys Thr Ser Arg Gln Val Gly Asn Leu Ser Arg Thr Thr Glu
 260 265 270

Lys Ile Asn Gly Val Ala Arg Cys Pro Tyr Asp Pro Arg His Asn Ser
 275 280 285

Thr Ala Val Ile Ser Ser Gln Gly Glu Leu Tyr Ala Ala Thr Val Ile

290	295	300
Asp Phe Ser Gly Arg Asp Pro Ala Ile Tyr Arg Ser Leu Gly Ser Gly		
305	310	315
320		
Pro Pro Leu Arg Thr Ala Gln Tyr Asn Ser Lys Trp Leu Asn Glu Pro		
325	330	335
Asn Phe Val Ala Ala Tyr Asp Ile Gly Leu Phe Ala Tyr Phe Phe Leu		
340	345	350
Arg Glu Asn Ala Val Glu His Asp Cys Gly Arg Thr Val Tyr Ser Arg		
355	360	365
Val Ala Arg Val Cys Lys Asn Asp Val Gly Gly Arg Phe Leu Leu Glu		
370	375	380
Asp Thr Trp Thr Thr Phe Met Lys Ala Arg Leu Asn Cys Ser Arg Pro		
385	390	395
400		
Gly Glu Val Pro Phe Tyr Tyr Asn Glu Leu Gln Ser Ala Phe His Leu		
405	410	415
Pro Glu Gln Asp Leu Ile Tyr Gly Val Phe Thr Thr Asn Val Asn Ser		
420	425	430
Ile Ala Ala Ser Ala Val Cys Ala Phe Asn Leu Ser Ala Ile Ser Gln		
435	440	445
Ala Phe Asn Gly Pro Phe Arg Tyr Gln Glu Asn Pro Arg Ala Ala Trp		
450	455	460
Leu Pro Ile Ala Asn Pro Ile Pro Asn Phe Gln Cys Gly Thr Leu Pro		
465	470	475
480		
Glu Thr Gly Pro Asn Glu Asn Leu Thr Glu Arg Ser Leu Gln Asp Ala		
485	490	495
Gln Arg Leu Phe Leu Met Ser Glu Ala Val Gln Pro Val Thr Pro Glu		
500	505	510
Pro Cys Val Thr Gln Asp Ser Val Arg Phe Ser His Leu Val Val Asp		
515	520	525
Leu Val Gln Ala Lys Asp Thr Leu Tyr His Val Leu Tyr Ile Gly Thr		
530	535	540
Glu Ser Gly Thr Ile Leu Lys Ala Leu Ser Thr Ala Ser Arg Ser Leu		
545	550	555
560		
His Gly Cys Tyr Leu Glu Glu Leu His Val Leu Pro Pro Gly Arg Arg		
565	570	575
Glu Pro Leu Arg Ser Leu Arg Ile Leu His Ser Ala Arg Ala Leu Phe		
580	585	590
Val Gly Leu Arg Asp Gly Val Leu Arg Val Pro Leu Glu Arg Cys Ala		
595	600	605
Ala Tyr Arg Ser Gln Gly Ala Cys Leu Gly Ala Arg Asp Pro Tyr Cys		
610	615	620

Gly Trp Asp Gly Lys Gln Gln Arg Cys Ser Thr Leu Glu Asp Ser Ser
 625 630 635 640

Asn Met Ser Leu Trp Thr Gln Asn Ile Thr Ala Cys Pro Val Arg Asn
 645 650 650 655

Val Thr Arg Asp Gly Gly Phe Gly Pro Trp Ser Pro Trp Gln Pro Cys
 660 665 670

Glu His Leu Asp Gly Asp Asn Ser Gly Ser Cys Leu Cys Arg Ala Arg
 675 680 685

Ser Cys Asp Ser Pro Arg Pro Arg Cys Gly Gly Leu Asp Cys Leu Gly
 690 695 700

Pro Ala Ile His Ile Ala Asn Cys Ser Arg Asn Gly Ala Val Asp Pro
 705 710 715 720

Val Val Ile Val Gly Arg Cys Ala Ala Thr Ser Cys Gly Ile Gly Phe
 725 730 735

Gln Val Arg Gln Arg Ser Cys Ser Asn Pro Ala Pro Arg His Gly Gly
 740 745 750

Arg Ile Cys Val Gly Lys Ser Arg Glu Glu Arg Phe Cys Asn Glu Asn
 755 760 765

Thr Pro Cys Pro Val Pro Ile Phe Trp Ala Ser Trp Gly Ser Trp Ser
 770 775 780

Lys Cys Ser Ser Asn Cys Gly Gly Met Gln Ser Arg Arg Arg Ala
 785 790 795 800

Cys Glu Asn Gly Asn Ser Cys Leu Gly Cys Gly Val Glu Phe Lys Thr
 805 810 815

Cys Asn Pro Glu Gly Cys Pro Glu Val Arg Arg Asn Thr Pro Trp Thr
 820 825 830

Pro Trp Leu Pro Val Asn Val Thr Gln Gly Gly Ala Arg Gln Glu Gln
 835 840 845

Arg Phe Arg Phe Thr Cys Arg Ala Pro Leu Ala Asp Pro His Gly Leu
 850 855 860

Gln Phe Gly Arg Arg Arg Thr Glu Thr Arg Thr Cys Pro Ala Asp Gly
 865 870 875 880

Ser Gly Ser Cys Asp Thr Asp Ala Leu Val Glu Val Leu Leu Arg Ser
 885 890 895

Gly Ser Thr Ser Pro His Thr Val Ser Gly Gly Trp Ala Ala Trp Gly
 900 905 910

Pro Trp Ser Ser Cys Ser Arg Asp Cys Glu Leu Gly Phe Arg Val Arg
 915 920 925

Lys Arg Thr Cys Thr Asn Pro Glu Pro Arg Asn Gly Gly Leu Pro Cys
 930 935 940

Val Gly Asp Ala Ala Glu Tyr Gln Asp Cys Asn Pro Gln Ala Cys Pro
 945 950 955 960

Val Arg Gly Ala Trp Ser Cys Trp Thr Ser Trp Ser Pro Cys Ser Ala
 965 970 975

Ser Cys Gly Gly His Tyr Gln Arg Thr Arg Ser Cys Thr Ser Pro
 980 985 990

Ala Pro Ser Pro Gly Glu Asp Ile Cys Leu Gly Leu His Thr Glu Glu
 995 1000 1005

Ala Leu Cys Ala Thr Gln Ala Cys Pro Glu Gly Trp Ser Pro Trp
 1010 1015 1020

Ser Glu Trp Ser Lys Cys Thr Asp Asp Gly Ala Gln Ser Arg Ser
 1025 1030 1035

Arg His Cys Glu Glu Leu Leu Pro Gly Ser Ser Ala Cys Ala Gly
 1040 1045 1050

Asn Ser Ser Gln Ser Arg Pro Cys Pro Tyr Ser Glu Ile Arg Val
 1055 1060 1065

Ile Leu Pro Ala Ser Ser Met Glu Glu Ala Thr Asp Cys Ala Gly
 1070 1075 1080

Phe Asn Leu Ile His Leu Val Ala Thr Gly Ile Ser Cys Phe Leu
 1085 1090 1095

Gly Ser Gly Leu Leu Thr Leu Ala Val Tyr Leu Ser Cys Gln His
 1100 1105 1110

Cys Gln Arg Gln Ser Gln Glu Ser Thr Leu Val His Pro Ala Thr
 1115 1120 1125

Pro Asn His Leu His Tyr Lys Gly Gly Gly Thr Pro Lys Asn Glu
 1130 1135 1140

Lys Tyr Thr Pro Met Glu Phe Lys Thr Leu Asn Lys Asn Asn Leu
 1145 1150 1155

Ile Pro Asp Asp Arg Ala Asn Phe Tyr Pro Leu Gln Gln Thr Asn
 1160 1165 1170

Ala Ser Ala Gly Tyr Pro Pro Leu Pro Gly Ser Leu Tyr Ser Thr
 1175 1180 1185

Gln Gly Ile Pro Leu Val Arg Gly Ser Glu Tyr Trp Glu Leu Glu
 1190 1195 1200

Ala Asp Leu Cys Leu Glu Val Leu
 1205 1210

<210> 12
 <211> 1203
 <212> PRT
 <213> Homo sapiens

<400> 12

Ala Ala Ala Pro Phe Pro Asp Arg Pro Pro Ala His Leu Val Ser Ser
 1 5 10 15

Arg Arg Ser Ala Pro Pro Gly Ser Arg Glu Pro Arg Gly Thr Gly His
 20 25 30

Leu His Pro Pro Leu Gly Val Ser Gly Ser Ser Trp Cys Leu Ala Cys
 35 40 45

Val Ser Trp Met Pro Cys Gly Phe Ser Pro Ser Pro Val Ala His His
 50 55 60

Leu Val Pro Gly Pro Pro Asp Thr Pro Ala Gln Gln Leu Arg Cys Gly
 65 70 75 80

Trp Thr Val Gly Gly Trp Leu Leu Ser Leu Val Arg Gly Leu Leu Pro
 85 90 95

Cys Leu Pro Pro Gly Ala Arg Thr Ala Glu Gly Pro Ile Met Val Leu
 100 105 110

Ala Gly Pro Leu Ala Val Ser Leu Leu Leu Pro Ser Leu Thr Leu Leu
 115 120 125

Val Ser His Leu Ser Ser Ser Gln Asp Val Ser Ser Glu Pro Ser Ser
 130 135 140

Glu Gln Gln Leu Cys Ala Leu Ser Lys His Pro Thr Val Ala Phe Glu
 145 150 155 160

Asp Leu Gln Pro Trp Val Ser Asn Phe Thr Tyr Pro Gly Ala Arg Asp
 165 170 175

Phe Ser Gln Leu Ala Leu Asp Pro Ser Gly Asn Gln Leu Ile Val Gly
 180 185 190

Ala Arg Asn Tyr Leu Phe Arg Leu Ser Leu Ala Asn Val Ser Leu Leu
 195 200 205

Gln Ala Thr Glu Trp Ala Ser Ser Glu Asp Thr Arg Arg Ser Cys Gln
 210 215 220

Ser Lys Gly Lys Thr Glu Glu Glu Cys Gln Asn Tyr Val Arg Val Leu
 225 230 235 240

Ile Val Ala Gly Arg Lys Val Phe Met Cys Gly Thr Asn Ala Phe Ser
 245 250 255

Pro Met Cys Thr Ser Arg Gln Val Gly Asn Leu Ser Arg Thr Thr Glu
 260 265 270

Lys Ile Asn Gly Val Ala Arg Cys Pro Tyr Asp Pro Arg His Asn Ser
 275 280 285

Thr Ala Val Ile Ser Ser Gln Gly Glu Leu Tyr Ala Ala Thr Val Ile
 290 295 300

Asp Phe Ser Gly Arg Asp Pro Ala Ile Tyr Arg Ser Leu Gly Ser Gly
 305 310 315 320

Pro Pro Leu Arg Thr Ala Gln Tyr Asn Ser Lys Trp Leu Asn Glu Pro

325

330

335

Asn Phe Val Ala Ala Tyr Asp Ile Gly Leu Phe Ala Tyr Phe Phe Leu
 340 345 350

Arg Glu Asn Ala Val Glu His Asp Cys Gly Arg Thr Val Tyr Ser Arg
 355 360 365

Val Ala Arg Val Cys Lys Asn Asp Val Gly Gly Arg Phe Leu Leu Glu
 370 375 380

Asp Thr Trp Thr Phe Met Lys Ala Arg Leu Asn Cys Ser Arg Pro
 385 390 395 400

Gly Glu Val Pro Phe Tyr Tyr Asn Glu Leu Gln Ser Ala Phe His Leu
 405 410 415

Pro Glu Gln Asp Leu Ile Tyr Gly Val Phe Thr Thr Asn Val Asn Ser
 420 425 430

Ile Ala Ala Ser Ala Val Cys Ala Phe Asn Leu Ser Ala Ile Ser Gln
 435 440 445

Ala Phe Asn Gly Pro Phe Arg Tyr Gln Glu Asn Pro Arg Ala Ala Trp
 450 455 460

Leu Pro Ile Ala Asn Pro Ile Pro Asn Phe Gln Cys Gly Thr Leu Pro
 465 470 475 480

Glu Thr Gly Pro Asn Glu Asn Leu Thr Glu Arg Ser Leu Gln Asp Ala
 485 490 495

Gln Arg Leu Phe Leu Met Ser Glu Ala Val Gln Pro Val Thr Pro Glu
 500 505 510

Pro Cys Val Thr Gln Asp Ser Val Arg Phe Ser His Leu Val Val Asp
 515 520 525

Leu Val Gln Ala Lys Asp Thr Leu Tyr His Val Leu Tyr Ile Gly Thr
 530 535 540

Glu Ser Gly Thr Ile Leu Lys Ala Leu Ser Thr Ala Ser Arg Ser Leu
 545 550 555 560

His Gly Cys Tyr Leu Glu Glu Leu His Val Leu Pro Pro Gly Arg Arg
 565 570 575

Glu Pro Leu Arg Ser Leu Arg Ile Leu His Ser Ala Arg Ala Leu Phe
 580 585 590

Val Gly Leu Arg Asp Gly Val Leu Arg Val Pro Leu Glu Arg Cys Ala
 595 600 605

Ala Tyr Arg Ser Gln Gly Ala Cys Leu Gly Ala Arg Asp Pro Tyr Cys
 610 615 620

Gly Trp Asp Gly Lys Gln Gln Arg Cys Ser Thr Leu Glu Asp Ser Ser
 625 630 635 640

Asn Met Ser Leu Trp Thr Gln Asn Ile Thr Ala Cys Pro Val Arg Asn
 645 650 655

Val Thr Arg Asp Gly Gly Phe Gly Pro Trp Ser Pro Trp Gln Pro Cys
 660 665 670

Glu His Leu Asp Gly Asp Asn Ser Gly Ser Cys Leu Cys Arg Ala Arg
 675 680 685

Ser Cys Asp Ser Pro Arg Pro Arg Cys Gly Gly Leu Asp Cys Leu Gly
 690 695 700

Pro Ala Ile His Ile Ala Asn Cys Ser Arg Asn Gly Ala Val Asp Pro
 705 710 715 720

Val Val Ile Val Gly Arg Cys Ala Ala Thr Ser Cys Gly Ile Gly Phe
 725 730 735

Gln Val Arg Gln Arg Ser Cys Ser Asn Pro Ala Pro Arg His Gly Gly
 740 745 750

Arg Ile Cys Val Gly Lys Ser Arg Glu Glu Arg Phe Cys Asn Glu Asn
 755 760 765

Thr Pro Cys Pro Val Pro Ile Phe Trp Ala Ser Trp Gly Ser Trp Ser
 770 775 780

Lys Cys Ser Ser Asn Cys Gly Gly Met Gln Ser Arg Arg Arg Ala
 785 790 795 800

Cys Glu Asn Gly Asn Ser Cys Leu Gly Cys Gly Val Glu Phe Lys Thr
 805 810 815

Cys Asn Pro Glu Gly Cys Pro Glu Val Arg Arg Asn Thr Pro Trp Thr
 820 825 830

Pro Trp Leu Pro Val Asn Val Thr Gln Gly Gly Ala Arg Gln Glu Gln
 835 840 845

Arg Phe Arg Phe Thr Cys Arg Ala Pro Leu Ala Asp Pro His Gly Leu
 850 855 860

Gln Phe Gly Arg Arg Arg Thr Glu Thr Arg Thr Cys Pro Ala Asp Gly
 865 870 875 880

Ser Gly Ser Cys Asp Thr Asp Ala Leu Val Glu Val Leu Leu Arg Ser
 885 890 895

Gly Ser Thr Ser Pro His Thr Val Ser Gly Gly Trp Ala Ala Trp Gly
 900 905 910

Pro Trp Ser Ser Cys Ser Arg Asp Cys Glu Leu Gly Phe Arg Val Arg
 915 920 925

Lys Arg Thr Cys Thr Asn Pro Glu Pro Arg Asn Gly Gly Leu Pro Cys
 930 935 940

Val Gly Asp Ala Ala Glu Tyr Gln Asp Cys Asn Pro Gln Ala Cys Pro
 945 950 955 960

Val Arg Gly Ala Trp Ser Cys Trp Thr Ser Trp Ser Pro Cys Ser Ala
 965 970 975

Ser Cys Gly Gly His Tyr Gln Arg Thr Arg Ser Cys Thr Ser Pro
 980 985 990
 Ala Pro Ser Pro Gly Glu Asp Ile Cys Leu Gly Leu His Thr Glu Glu
 995 1000 1005
 Ala Leu Cys Ala Thr Gln Ala Cys Pro Glu Gly Trp Ser Pro Trp
 1010 1015 1020
 Ser Glu Trp Ser Lys Cys Thr Asp Asp Gly Ala Gln Ser Arg Ser
 1025 1030 1035
 Arg His Cys Glu Glu Leu Leu Pro Gly Ser Ser Ala Cys Ala Gly
 1040 1045 1050
 Asn Ser Ser Gln Ser Arg Pro Cys Pro Tyr Ser Glu Ile Arg Val
 1055 1060 1065
 Ile Leu Pro Ala Ser Ser Met Glu Glu Ala Thr Asp Cys Ala Gly
 1070 1075 1080
 Phe Asn Leu Ile His Leu Val Ala Thr Gly Ile Ser Cys Phe Leu
 1085 1090 1095
 Gly Ser Gly Leu Leu Thr Leu Ala Val Tyr Leu Ser Cys Gln His
 1100 1105 1110
 Cys Gln Arg Gln Ser Gln Glu Ser Thr Leu Val His Pro Ala Thr
 1115 1120 1125
 Pro Asn His Leu His Tyr Lys Gly Gly Gly Thr Pro Lys Asn Glu
 1130 1135 1140
 Lys Tyr Thr Pro Met Glu Phe Lys Thr Leu Asn Lys Asn Asn Leu
 1145 1150 1155
 Ile Pro Asp Asp Arg Ala Asn Phe Tyr Pro Leu Gln Gln Thr Asn
 1160 1165 1170
 Val Tyr Thr Thr Thr Tyr Tyr Pro Ser Pro Leu Asn Lys His Ser
 1175 1180 1185
 Phe Arg Pro Glu Ala Ser Pro Gly Gln Arg Cys Phe Pro Asn Ser
 1190 1195 1200

<210> 13
 <211> 1240
 <212> PRT
 <213> Homo sapiens

<400> 13
 Ala Ala Ala Pro Phe Pro Asp Arg Pro Pro Ala His Leu Val Ser Ser
 1 5 10 15
 Arg Arg Ser Ala Pro Pro Gly Ser Arg Glu Pro Arg Gly Thr Gly His
 20 25 30
 Leu His Pro Pro Leu Gly Val Ser Gly Ser Ser Trp Cys Leu Ala Cys
 35 40 45

Val Ser Trp Met Pro Cys Gly Phe Ser Pro Ser Pro Val Ala His His
 50 55 60

Leu Val Pro Gly Pro Pro Asp Thr Pro Ala Gln Gln Leu Arg Cys Gly
 65 70 75 80

Trp Thr Val Gly Gly Trp Leu Leu Ser Leu Val Arg Gly Arg Lys Pro
 85 90 95

Ser Gly Asp Phe Glu Trp Arg Gln Gly Trp Arg Gly Pro Gly Glu Glu
 100 105 110

Asp Trp Pro Glu Ser Pro Ser Pro Lys Val Leu Met Asp Ser Ala Gly
 115 120 125

Gly Leu Leu Pro Cys Leu Pro Pro Gly Ala Arg Thr Ala Glu Gly Pro
 130 135 140

Ile Met Val Leu Ala Gly Pro Leu Ala Val Ser Leu Leu Leu Pro Ser
 145 150 155 160

Leu Thr Leu Leu Val Ser His Leu Ser Ser Ser Gln Asp Val Ser Ser
 165 170 175

Glu Pro Ser Ser Glu Gln Gln Leu Cys Ala Leu Ser Lys His Pro Thr
 180 185 190

Val Ala Phe Glu Asp Leu Gln Pro Trp Val Ser Asn Phe Thr Tyr Pro
 195 200 205

Gly Ala Arg Asp Phe Ser Gln Leu Ala Leu Asp Pro Ser Gly Asn Gln
 210 215 220

Leu Ile Val Gly Ala Arg Asn Tyr Leu Phe Arg Leu Ser Leu Ala Asn
 225 230 235 240

Val Ser Leu Leu Gln Ala Thr Glu Trp Ala Ser Ser Glu Asp Thr Arg
 245 250 255

Arg Ser Cys Gln Ser Lys Gly Lys Thr Glu Glu Glu Cys Gln Asn Tyr
 260 265 270

Val Arg Val Leu Ile Val Ala Gly Arg Lys Val Phe Met Cys Gly Thr
 275 280 285

Asn Ala Phe Ser Pro Met Cys Thr Ser Arg Gln Val Gly Asn Leu Ser
 290 295 300

Arg Thr Thr Glu Lys Ile Asn Gly Val Ala Arg Cys Pro Tyr Asp Pro
 305 310 315 320

Arg His Asn Ser Thr Ala Val Ile Ser Ser Gln Gly Glu Leu Tyr Ala
 325 330 335

Ala Thr Val Ile Asp Phe Ser Gly Arg Asp Pro Ala Ile Tyr Arg Ser
 340 345 350

Leu Gly Ser Gly Pro Pro Leu Arg Thr Ala Gln Tyr Asn Ser Lys Trp
 355 360 365

Leu Asn Glu Pro Asn Phe Val Ala Ala Tyr Asp Ile Gly Leu Phe Ala
 370 375 380
 Tyr Phe Phe Leu Arg Glu Asn Ala Val Glu His Asp Cys Gly Arg Thr
 385 390 395 400
 Val Tyr Ser Arg Val Ala Arg Val Cys Lys Asn Asp Val Gly Gly Arg
 405 410 415
 Phe Leu Leu Glu Asp Thr Trp Thr Phe Met Lys Ala Arg Leu Asn
 420 425 430
 Cys Ser Arg Pro Gly Glu Val Pro Phe Tyr Tyr Asn Glu Leu Gln Ser
 435 440 445
 Ala Phe His Leu Pro Glu Gln Asp Leu Ile Tyr Gly Val Phe Thr Thr
 450 455 460
 Asn Val Asn Ser Ile Ala Ala Ser Ala Val Cys Ala Phe Asn Leu Ser
 465 470 475 480
 Ala Ile Ser Gln Ala Phe Asn Gly Pro Phe Arg Tyr Gln Glu Asn Pro
 485 490 495
 Arg Ala Ala Trp Leu Pro Ile Ala Asn Pro Ile Pro Asn Phe Gln Cys
 500 505 510
 Gly Thr Leu Pro Glu Thr Gly Pro Asn Glu Asn Leu Thr Glu Arg Ser
 515 520 525
 Leu Gln Asp Ala Gln Arg Leu Phe Leu Met Ser Glu Ala Val Gln Pro
 530 535 540
 Val Thr Pro Glu Pro Cys Val Thr Gln Asp Ser Val Arg Phe Ser His
 545 550 555 560
 Leu Val Val Asp Leu Val Gln Ala Lys Asp Thr Leu Tyr His Val Leu
 565 570 575
 Tyr Ile Gly Thr Glu Ser Gly Thr Ile Leu Lys Ala Leu Ser Thr Ala
 580 585 590
 Ser Arg Ser Leu His Gly Cys Tyr Leu Glu Glu Leu His Val Leu Pro
 595 600 605
 Pro Gly Arg Arg Glu Pro Leu Arg Ser Leu Arg Ile Leu His Ser Ala
 610 615 620
 Arg Ala Leu Phe Val Gly Leu Arg Asp Gly Val Leu Arg Val Pro Leu
 625 630 635 640
 Glu Arg Cys Ala Ala Tyr Arg Ser Gln Gly Ala Cys Leu Gly Ala Arg
 645 650 655
 Asp Pro Tyr Cys Gly Trp Asp Gly Lys Gln Gln Arg Cys Ser Thr Leu
 660 665 670
 Glu Asp Ser Ser Asn Met Ser Leu Trp Thr Gln Asn Ile Thr Ala Cys
 675 680 685
 Pro Val Arg Asn Val Thr Arg Asp Gly Gly Phe Gly Pro Trp Ser Pro

690	695	700
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Trp	Gln	Pro	Cys	Glu	His	Leu	Asp	Gly	Asp	Asn	Ser	Gly	Ser	Cys	Leu
705															720
710															

Cys	Arg	Ala	Arg	Ser	Cys	Asp	Ser	Pro	Arg	Pro	Arg	Cys	Gly	Gly	Leu
725															735

Asp	Cys	Leu	Gly	Pro	Ala	Ile	His	Ile	Ala	Asn	Cys	Ser	Arg	Asn	Gly
740															750

Gly	Arg	Gly	Pro	Arg	Gly	Ala	Ser	Trp	Ala	Ala	Val	Gln	Ala	Arg	Pro
755															765

Val	Ala	Ser	Gly	Phe	Gln	Val	Arg	Gln	Arg	Ser	Cys	Ser	Asn	Pro	Ala
770															780

Pro	Arg	His	Gly	Gly	Arg	Ile	Cys	Val	Gly	Lys	Ser	Arg	Glu	Glu	Arg
785															800

Phe	Cys	Asn	Glu	Asn	Thr	Pro	Cys	Pro	Val	Pro	Ile	Phe	Trp	Ala	Ser
805															815

Trp	Gly	Ser	Trp	Ser	Lys	Cys	Ser	Ser	Asn	Cys	Gly	Gly	Met	Gln	
820															830

Ser	Arg	Arg	Arg	Ala	Cys	Glu	Asn	Asn	Ser	Cys	Leu	Gly	Cys	Gly	
835															845

Val	Glu	Phe	Lys	Thr	Cys	Asn	Pro	Glu	Gly	Cys	Pro	Glu	Val	Arg	Arg
850															860

Asn	Thr	Pro	Trp	Thr	Pro	Trp	Leu	Pro	Val	Asn	Val	Thr	Gln	Gly	
865															880

Ala	Arg	Gln	Glu	Gln	Arg	Phe	Arg	Phe	Thr	Cys	Arg	Ala	Pro	Leu	Ala
885															895

Asp	Pro	His	Gly	Leu	Gln	Phe	Gly	Arg	Arg	Arg	Thr	Glu	Thr	Arg	Thr
900															910

Cys	Pro	Ala	Asp	Gly	Ser	Gly	Ser	Cys	Asp	Thr	Asp	Ala	Leu	Val	Glu
915															925

Val	Leu	Leu	Arg	Ser	Gly	Ser	Thr	Ser	Pro	His	Thr	Val	Ser	Gly	Gly
930															940

Trp	Ala	Ala	Trp	Gly	Pro	Trp	Ser	Ser	Cys	Ser	Arg	Asp	Cys	Glu	Leu
945															960

Gly	Phe	Arg	Val	Arg	Lys	Arg	Thr	Cys	Thr	Asn	Pro	Glu	Pro	Arg	Asn
965															975

Gly	Gly	Leu	Pro	Cys	Val	Gly	Asp	Ala	Ala	Glu	Tyr	Gln	Asp	Cys	Asn
980															990

Pro	Gln	Ala	Cys	Pro	Val	Arg	Gly	Ala	Trp	Ser	Cys	Trp	Thr	Ser	Trp
995															1005

Ser	Pro	Cys	Ser	Ala	Ser	Cys	Gly	Gly	Gly	His	Tyr	Gln	Arg	Thr	
1010															1020

Arg Ser Cys Thr Ser Pro Ala Pro Ser Pro Gly Glu Asp Ile Cys
 1025 1030 1035
 Leu Gly Leu His Thr Glu Glu Ala Leu Cys Ala Thr Gln Ala Cys
 1040 1045 1050
 Pro Glu Gly Trp Ser Pro Trp Ser Glu Trp Ser Lys Cys Thr Asp
 1055 1060 1065
 Asp Gly Ala Gln Ser Arg Ser Arg His Cys Glu Glu Leu Leu Pro
 1070 1075 1080
 Gly Ser Ser Ala Cys Ala Gly Asn Ser Ser Gln Ser Arg Pro Cys
 1085 1090 1095
 Pro Tyr Ser Glu Ile Arg Val Ile Leu Pro Ala Ser Ser Met Glu
 1100 1105 1110
 Glu Ala Thr Asp Cys Ala Gly Phe Asn Leu Ile His Leu Val Ala
 1115 1120 1125
 Thr Gly Ile Ser Cys Phe Leu Gly Ser Gly Leu Leu Thr Leu Ala
 1130 1135 1140
 Val Tyr Leu Ser Cys Gln His Cys Gln Arg Gln Ser Gln Glu Ser
 1145 1150 1155
 Thr Leu Val His Pro Ala Thr Pro Asn His Leu His Tyr Lys Gly
 1160 1165 1170
 Gly Gly Thr Pro Lys Asn Glu Lys Tyr Thr Pro Met Glu Phe Lys
 1175 1180 1185
 Thr Leu Asn Lys Asn Asn Leu Ile Pro Asp Asp Arg Ala Asn Phe
 1190 1195 1200
 Tyr Pro Leu Gln Gln Thr Asn Val Tyr Thr Thr Thr Tyr Tyr Pro
 1205 1210 1215
 Ser Pro Leu Asn Lys His Ser Phe Arg Pro Glu Ala Ser Pro Gly
 1220 1225 1230
 Gln Arg Cys Phe Pro Asn Ser
 1235 1240

<210> 14
 <211> 4567
 <212> DNA
 <213> Homo sapiens

<400> 14
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 cccggccggga gtcgggagcc gcggggaaacc gggcacctgc acccgccctct gggagtgagt 120
 ggttccagct ggtgcctggc ctgtgtctct tggatgcctt gtggcttcag tccgtctcct 180
 gttggccacc acctcggtccc tggggccgcct gataccccag cccaaacagct aagggtgtgga 240
 tggacagtag ggggtggct tctctcaactg gtcagggtgc ttctccctg tctgcctccc 300
 ggagcttagga ctgcagaggg gccttatcatg gtgcattgcag gccccctggc tgcgtcgctg 360
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ctgatgagcg	aggccgtgc	gccggtgaca	cccgagccct	gtgtcaccca	ggacagcgtg	1560
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aacatgagcc	tctggaccca	gaacatcacc	gcctgtccctg	tgcggaatgt	gacacggat	1980
gggggcttcg	gcccatggc	accatggcaa	ccatgtgagc	acttggatgg	ggacaactca	2040
ggcttgc	tgtgtcgagc	tcgatctgt	gattccctc	gaccccgctg	tgggggcctt	2100
gactgcctgg	ggccagccat	ccacatcgcc	aactgttca	ggaatggggc	gtggaccccg	2160
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gaacggttct	gtaatgagaa	cacgccttgc	ccgggtccca	tcttctggc	ttctctgggc	2340
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ggcggggcac	ggcaggagca	gcgggtccgc	ttcacctg	gcgcgc	ttgcagaccccg	2580
cacggcctgc	agttcggt	gagaaggacc	gagacgagga	cctgtcc	ggacggctcc	2640
ggctcctgc	acaccgacgc	cctgggtggag	gtcctcctgc	gcagcgggag	cacccccc	2700
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gagctggct	tccgcgtcc	caagagaacg	tgcactaacc	cggagccccc	caacggggc	2820
ctgccc	ttggcgatgc	tgccgagtc	caggactgc	acccccc	ttgcccagtt	2880
cgggggtctt	gttcctgt	gacctcatgg	tctccatgt	cagcttc	tgggtgggg	2940
cactatcaac	gcacccgttc	ctgcaccagc	ccgcacacc	ccccagg	tgacatctgt	3000
ctcgggctgc	acacggagga	gcaactatgt	gccacacagg	cctgccc	aggctggtc	3060
ccctggtctg	agtggagtaa	gtgcactgac	gacggagccc	agagcc	aaagccgag	3120
gaggagctcc	tcccagggtc	cagcgcmtgt	gctggaaaca	gcagcc	ccggcactgt	3180

ccctacagcg agattcscgt	cattcgtccca	gcctccagca	tggaggaggc	caccgactgt	3240
gcagggttca atctcatcca	cttgggtggcc	acgggcatact	cctgcttctt	gggctctggg	3300
ctcctgaccc tagcagtgt	cctgtcttgc	cagcaactg	agcgtcagtc	ccaggagtcc	3360
acactggtcc atcctgccac	ccccaaaccat	ttgcactaca	agggcggagg	caccccgaa	3420
aatgaaaagt acacaccat	ggaattcaag	accctgaaca	agaataactt	gatccctgat	3480
gacagagcca acttctaccc	attgcagcag	accaatgcca	gcfgcaggta	tccacctctg	3540
cctggaagtc tatactctac	ccagggcattc	cctctggta	gaggcagtg	gtactgggaa	3600
ctggaggctg acctgtgtt	agaagtcctt	taatctggc	tggcacaggc	ctcagccttg	3660
ccctcaatgc acgaaagg	gccaggaga	gaggatcaat	gccataggag	gcagaagtct	3720
ggcctctgtg cctctatgg	gactatcttc	cagttgtgc	tcaacagagt	tgttggctga	3780
gacctgcttg ggagtctctg	ctggcccttc	atctgttcag	gaacacacac	acacacacac	3840
tcacacacgc acacacaatc	acaatttgct	acagcaacaa	aaaagacatt	gggctgtggc	3900
attattaatt aaagatgata	tccagtcaaa	aaaaaact			3938

<210> 21
<211> 1095
<212> PRT
<213> Homo sapiens

<400> 21
Met Val Leu Ala Gly Pro Leu Ala Val Ser Leu Leu Leu Pro Ser Leu
1 5 10 15

Thr Leu Leu Val Ser His Leu Ser Ser Ser Gln Asp Val Ser Ser Glu
20 25 30

Pro Ser Ser Glu Gln Gln Leu Cys Ala Leu Ser Lys His Pro Thr Val
35 40 45

Ala Phe Glu Asp Leu Gln Pro Trp Val Ser Asn Phe Thr Tyr Pro Gly
50 55 60

Ala Arg Asp Phe Ser Gln Leu Ala Leu Asp Pro Ser Gly Asn Gln Leu
65 70 75 80

Ile Val Gly Ala Arg Asn Tyr Leu Phe Arg Leu Ser Leu Ala Asn Val
85 90 95

Ser Leu Leu Gln Ala Thr Glu Trp Ala Ser Ser Glu Asp Thr Arg Arg
100 105 110

Ser Cys Gln Ser Lys Gly Lys Thr Glu Glu Glu Cys Gln Asn Tyr Val
115 120 125

Arg Val Leu Ile Val Ala Gly Arg Lys Val Phe Met Cys Gly Thr Asn
130 135 140

Ala Phe Ser Pro Met Cys Thr Ser Arg Gln Val Gly Asn Leu Ser Arg
145 150 155 160

Thr Thr Glu Lys Ile Asn Gly Val Ala Arg Cys Pro Tyr Asp Pro Arg
165 170 175

His Asn Ser Thr Ala Val Ile Ser Ser Gln Gly Glu Leu Tyr Ala Ala
180 185 190

Thr Val Ile Asp Phe Ser Gly Arg Asp Pro Ala Ile Tyr Arg Ser Leu
195 200 205

Gly Ser Gly Pro Pro Leu Arg Thr Ala Gln Tyr Asn Ser Lys Trp Leu

210

215

220

Asn Glu Pro Asn Phe Val Ala Ala Tyr Asp Ile Gly Leu Phe Ala Tyr
 225 230 235 240

Phe Phe Leu Arg Glu Asn Ala Val Glu His Asp Cys Gly Arg Thr Val
 245 250 255

Tyr Ser Arg Val Ala Arg Val Cys Lys Asn Asp Val Gly Gly Arg Phe
 260 265 270

Leu Leu Glu Asp Thr Trp Thr Phe Met Lys Ala Arg Leu Asn Cys
 275 280 285

Ser Arg Pro Gly Glu Val Pro Phe Tyr Tyr Asn Glu Leu Gln Ser Ala
 290 295 300

Phe His Leu Pro Glu Gln Asp Leu Ile Tyr Gly Val Phe Thr Thr Asn
 305 310 315 320

Val Asn Ser Ile Ala Ala Ser Ala Val Cys Ala Phe Asn Leu Ser Ala
 325 330 335

Ile Ser Gln Ala Phe Asn Gly Pro Phe Arg Tyr Gln Glu Asn Pro Arg
 340 345 350

Ala Ala Trp Leu Pro Ile Ala Asn Pro Ile Pro Asn Phe Gln Cys Gly
 355 360 365

Thr Leu Pro Glu Thr Gly Pro Asn Glu Asn Leu Thr Glu Arg Ser Leu
 370 375 380

Gln Asp Ala Gln Arg Leu Phe Leu Met Ser Glu Ala Val Gln Pro Val
 385 390 395 400

Thr Pro Glu Pro Cys Val Thr Gln Asp Ser Val Arg Phe Ser His Leu
 405 410 415

Val Val Asp Leu Val Gln Ala Lys Asp Thr Leu Tyr His Val Leu Tyr
 420 425 430

Ile Gly Thr Glu Ser Gly Thr Ile Leu Lys Ala Leu Ser Thr Ala Ser
 435 440 445

Arg Ser Leu His Gly Cys Tyr Leu Glu Glu Leu His Val Leu Pro Pro
 450 455 460

Gly Arg Arg Glu Pro Leu Arg Ser Leu Arg Ile Leu His Ser Ala Arg
 465 470 475 480

Ala Leu Phe Val Gly Leu Arg Asp Gly Val Leu Arg Val Pro Leu Glu
 485 490 495

Arg Cys Ala Ala Tyr Arg Ser Gln Gly Ala Cys Leu Gly Ala Arg Asp
 500 505 510

Pro Tyr Cys Gly Trp Asp Gly Lys Gln Gln Arg Cys Ser Thr Leu Glu
 515 520 525

Asp Ser Ser Asn Met Ser Leu Trp Thr Gln Asn Ile Thr Ala Cys Pro
 530 535 540

Val Arg Asn Val Thr Arg Asp Gly Gly Phe Gly Pro Trp Ser Pro Trp
 545 550 555 560
 Gln Pro Cys Glu His Leu Asp Gly Asp Asn Ser Gly Ser Cys Leu Cys
 565 570 575
 Arg Ala Arg Ser Cys Asp Ser Pro Arg Pro Arg Cys Gly Gly Leu Asp
 580 585 590
 Cys Leu Gly Pro Ala Ile His Ile Ala Asn Cys Ser Arg Asn Gly Gly
 595 600 605
 Arg Gly Pro Arg Gly Ala Ser Trp Ala Ala Val Gln Ala Arg Pro Val
 610 615 620
 Ala Ser Gly Phe Gln Val Arg Gln Arg Ser Cys Ser Asn Pro Ala Pro
 625 630 635 640
 Arg His Gly Gly Arg Ile Cys Val Gly Lys Ser Arg Glu Glu Arg Phe
 645 650 655
 Cys Asn Glu Asn Thr Pro Cys Pro Val Pro Ile Phe Trp Ala Ser Trp
 660 665 670
 Gly Ser Trp Ser Lys Cys Ser Ser Asn Cys Gly Gly Gly Met Gln Ser
 675 680 685
 Arg Arg Arg Ala Cys Glu Asn Gly Asn Ser Cys Leu Gly Cys Gly Val
 690 695 700
 Glu Phe Lys Thr Cys Asn Pro Glu Gly Cys Pro Glu Val Arg Arg Asn
 705 710 715 720
 Thr Pro Trp Thr Pro Trp Leu Pro Val Asn Val Thr Gln Gly Gly Ala
 725 730 735
 Arg Gln Glu Gln Arg Phe Arg Phe Thr Cys Arg Ala Pro Leu Ala Asp
 740 745 750
 Pro His Gly Leu Gln Phe Gly Arg Arg Arg Thr Glu Thr Arg Thr Cys
 755 760 765
 Pro Ala Asp Gly Ser Gly Ser Cys Asp Thr Asp Ala Leu Val Glu Val
 770 775 780
 Leu Leu Arg Ser Gly Ser Thr Ser Pro His Thr Val Ser Gly Gly Trp
 785 790 795 800
 Ala Ala Trp Gly Pro Trp Ser Ser Cys Ser Arg Asp Cys Glu Leu Gly
 805 810 815
 Phe Arg Val Arg Lys Arg Thr Cys Thr Asn Pro Glu Pro Arg Asn Gly
 820 825 830
 Gly Leu Pro Cys Val Gly Asp Ala Ala Glu Tyr Gln Asp Cys Asn Pro
 835 840 845
 Gln Ala Cys Pro Val Arg Gly Ala Trp Ser Cys Trp Thr Ser Trp Ser
 850 855 860

Pro Cys Ser Ala Ser Cys Gly Gly His Tyr Gln Arg Thr Arg Ser
 865 870 875 880

 Cys Thr Ser Pro Ala Pro Ser Pro Gly Glu Asp Ile Cys Leu Gly Leu
 885 890 895

 His Thr Glu Glu Ala Leu Cys Ala Thr Gln Ala Cys Pro Glu Gly Trp
 900 905 910

 Ser Pro Trp Ser Glu Trp Ser Lys Cys Thr Asp Asp Gly Ala Gln Ser
 915 920 925

 Arg Ser Arg His Cys Glu Glu Leu Leu Pro Gly Ser Ser Ala Cys Ala
 930 935 940

 Gly Asn Ser Ser Gln Ser Arg Pro Cys Pro Tyr Ser Glu Ile Arg Val
 945 950 955 960

 Ile Leu Pro Ala Ser Ser Met Glu Glu Ala Thr Asp Cys Ala Gly Phe
 965 970 975

 Asn Leu Ile His Leu Val Ala Thr Gly Ile Ser Cys Phe Leu Gly Ser
 980 985 990

 Gly Leu Leu Thr Leu Ala Val Tyr Leu Ser Cys Gln His Cys Gln Arg
 995 1000 1005

 Gln Ser Gln Glu Ser Thr Leu Val His Pro Ala Thr Pro Asn His
 1010 1015 1020

 Leu His Tyr Lys Gly Gly Thr Pro Lys Asn Glu Lys Tyr Thr
 1025 1030 1035

 Pro Met Glu Phe Lys Thr Leu Asn Lys Asn Asn Leu Ile Pro Asp
 1040 1045 1050

 Asp Arg Ala Asn Phe Tyr Pro Leu Gln Gln Thr Asn Val Tyr Thr
 1055 1060 1065

 Thr Thr Tyr Tyr Pro Ser Pro Leu Asn Lys His Ser Phe Arg Pro
 1070 1075 1080

 Glu Ala Ser Pro Gly Gln Arg Cys Phe Pro Asn Ser
 1085 1090 1095

<210> 22
 <211> 1248
 <212> PRT
 <213> Homo sapiens

<400> 22
 Arg Pro Pro His Ser Gln Thr Gly Arg Gln Pro Ile Trp Leu Ala Pro
 1 5 10 15

 Ala Ala Pro Arg Arg Pro Gly Val Gly Ser Arg Gly Glu Pro Gly Thr
 20 25 30

 Cys Thr Arg Leu Trp Glu Pro Ala Trp Val Arg Val Ala Leu Gly Pro
 35 40 45

Ala Arg Ala Val Val Gly Ala Ser Gly Leu Gln Arg Arg Trp Gly Pro
 50 55 60

Gly Thr Gln Ala Trp Arg Arg Arg Arg Thr Ser Glu Ala Glu Gly Arg
 65 70 75 80

Arg Asp Arg Val Ser Gly Ser Ser Trp Cys Leu Ala Cys Val Ser Trp
 85 90 95

Met Pro Cys Gly Phe Ser Pro Ser Pro Val Ala His His Leu Val Pro
 100 105 110

Gly Pro Pro Asp Thr Pro Ala Gln Gln Leu Arg Cys Gly Trp Thr Val
 115 120 125

Gly Gly Trp Leu Leu Ser Leu Val Arg Gly Leu Leu Pro Cys Leu Pro
 130 135 140

Pro Gly Ala Arg Thr Ala Glu Gly Pro Ile Met Val Leu Ala Gly Pro
 145 150 155 160

Leu Ala Val Ser Leu Leu Pro Ser Leu Thr Leu Leu Val Ser His
 165 170 175

Leu Ser Ser Ser Gln Asp Val Ser Ser Glu Pro Ser Ser Glu Gln Gln
 180 185 190

Leu Cys Ala Leu Ser Lys His Pro Thr Val Ala Phe Glu Asp Leu Gln
 195 200 205

Pro Trp Val Ser Asn Phe Thr Tyr Pro Gly Ala Arg Asp Phe Ser Gln
 210 215 220

Leu Ala Leu Asp Pro Ser Gly Asn Gln Leu Ile Val Gly Ala Arg Asn
 225 230 235 240

Tyr Leu Phe Arg Leu Ser Leu Ala Asn Val Ser Leu Leu Gln Ala Thr
 245 250 255

Glu Trp Ala Ser Ser Glu Asp Thr Arg Arg Ser Cys Gln Ser Lys Gly
 260 265 270

Lys Thr Glu Glu Glu Cys Gln Asn Tyr Val Arg Val Leu Ile Val Ala
 275 280 285

Gly Arg Lys Val Phe Met Cys Gly Thr Asn Ala Phe Ser Pro Met Cys
 290 295 300

Thr Ser Arg Gln Val Gly Asn Leu Ser Arg Thr Thr Glu Lys Ile Asn
 305 310 315 320

Gly Val Ala Arg Cys Pro Tyr Asp Pro Arg His Asn Ser Thr Ala Val
 325 330 335

Ile Ser Ser Gln Gly Glu Leu Tyr Ala Ala Thr Val Ile Asp Phe Ser
 340 345 350

Gly Arg Asp Pro Ala Ile Tyr Arg Ser Leu Gly Ser Gly Pro Pro Leu
 355 360 365

Arg Thr Ala Gln Tyr Asn Ser Lys Trp Leu Asn Glu Pro Asn Phe Val

370	375	380	
Ala Ala Tyr Asp Ile Gly Leu Phe Ala Tyr Phe Phe Leu Arg Glu Asn			
385	390	395	400
Ala Val Glu His Asp Cys Gly Arg Thr Val Tyr Ser Arg Val Ala Arg			
405	410	415	
Val Cys Lys Asn Asp Val Gly Gly Arg Phe Leu Leu Glu Asp Thr Trp			
420	425	430	
Thr Thr Phe Met Lys Ala Arg Leu Asn Cys Ser Arg Pro Gly Glu Val			
435	440	445	
Pro Phe Tyr Tyr Asn Glu Leu Gln Ser Ala Phe His Leu Pro Glu Gln			
450	455	460	
Asp Leu Ile Tyr Gly Val Phe Thr Thr Asn Val Asn Ser Ile Ala Ala			
465	470	475	480
Ser Ala Val Cys Ala Phe Asn Leu Ser Ala Ile Ser Gln Ala Phe Asn			
485	490	495	
Gly Pro Phe Arg Tyr Gln Glu Asn Pro Arg Ala Ala Trp Leu Pro Ile			
500	505	510	
Ala Asn Pro Ile Pro Asn Phe Gln Cys Gly Thr Leu Pro Glu Thr Gly			
515	520	525	
Pro Asn Glu Asn Leu Thr Glu Arg Ser Leu Gln Asp Ala Gln Arg Leu			
530	535	540	
Phe Leu Met Ser Glu Ala Val Gln Pro Val Thr Pro Glu Pro Cys Val			
545	550	555	560
Thr Gln Asp Ser Val Arg Phe Ser His Leu Val Val Asp Leu Val Gln			
565	570	575	
Ala Lys Asp Thr Leu Tyr His Val Leu Tyr Ile Gly Thr Glu Ser Gly			
580	585	590	
Thr Ile Leu Lys Ala Leu Ser Thr Ala Ser Arg Ser Leu His Gly Cys			
595	600	605	
Tyr Leu Glu Glu Leu His Val Leu Pro Pro Gly Arg Arg Glu Pro Leu			
610	615	620	
Arg Ser Leu Arg Ile Leu His Ser Ala Arg Ala Leu Phe Val Gly Leu			
625	630	635	640
Arg Asp Gly Val Leu Arg Val Pro Leu Glu Arg Cys Ala Ala Tyr Arg			
645	650	655	
Ser Gln Gly Ala Cys Leu Gly Ala Arg Asp Pro Tyr Cys Gly Trp Asp			
660	665	670	
Gly Lys Gln Gln Arg Cys Ser Thr Leu Glu Asp Ser Ser Asn Met Ser			
675	680	685	
Leu Trp Thr Gln Asn Ile Thr Ala Cys Pro Val Arg Asn Val Thr Arg			
690	695	700	

Asp Gly Gly Phe Gly Pro Trp Ser Pro Trp Gln Pro Cys Glu His Leu
 705 710 715 720

Asp Gly Asp Asn Ser Gly Ser Cys Leu Cys Arg Ala Arg Ser Cys Asp
 725 730 735

Ser Pro Arg Pro Arg Cys Gly Gly Leu Asp Cys Leu Gly Pro Ala Ile
 740 745 750

His Ile Ala Asn Cys Ser Arg Asn Gly Ala Val Asp Pro Val Val Ile
 755 760 765

Val Gly Arg Cys Ala Ala Thr Ser Cys Gly Ile Gly Phe Gln Val Arg
 770 775 780

Gln Arg Ser Cys Ser Asn Pro Ala Pro Arg His Gly Gly Arg Ile Cys
 785 790 795 800

Val Gly Lys Ser Arg Glu Glu Arg Phe Cys Asn Glu Asn Thr Pro Cys
 805 810 815

Pro Val Pro Ile Phe Trp Ala Ser Trp Gly Ser Trp Ser Lys Cys Ser
 820 825 830

Ser Asn Cys Gly Gly Met Gln Ser Arg Arg Ala Cys Glu Asn
 835 840 845

Gly Asn Ser Cys Leu Gly Cys Gly Val Glu Phe Lys Thr Cys Asn Pro
 850 855 860

Glu Gly Cys Pro Glu Val Arg Arg Asn Thr Pro Trp Thr Pro Trp Leu
 865 870 875 880

Pro Val Asn Val Thr Gln Gly Ala Arg Gln Glu Gln Arg Phe Arg
 885 890 895

Phe Thr Cys Arg Ala Pro Leu Ala Asp Pro His Gly Leu Gln Phe Gly
 900 905 910

Arg Arg Arg Thr Glu Thr Arg Thr Cys Pro Ala Asp Gly Ser Gly Ser
 915 920 925

Cys Asp Thr Asp Ala Leu Val Glu Val Leu Leu Arg Ser Gly Ser Thr
 930 935 940

Ser Pro His Thr Val Ser Gly Gly Trp Ala Ala Trp Gly Pro Trp Ser
 945 950 955 960

Ser Cys Ser Arg Asp Cys Glu Leu Gly Phe Arg Val Arg Lys Arg Thr
 965 970 975

Cys Thr Asn Pro Glu Pro Arg Asn Gly Gly Leu Pro Cys Val Gly Asp
 980 985 990

Ala Ala Glu Tyr Gln Asp Cys Asn Pro Gln Ala Cys Pro Val Arg Gly
 995 1000 1005

Ala Trp Ser Cys Trp Thr Ser Trp Ser Pro Cys Ser Ala Ser Cys
 1010 1015 1020

Gly Gly Gly His Tyr Gln Arg Thr Arg Ser Cys Thr Ser Pro Ala
 1025 1030 1035
 Pro Ser Pro Gly Glu Asp Ile Cys Leu Gly Leu His Thr Glu Glu
 1040 1045 1050
 Ala Leu Cys Ala Thr Gln Ala Cys Pro Glu Gly Trp Ser Pro Trp
 1055 1060 1065
 Ser Glu Trp Ser Lys Cys Thr Asp Asp Gly Ala Gln Ser Arg Ser
 1070 1075 1080
 Arg His Cys Glu Glu Leu Leu Pro Gly Ser Ser Ala Cys Ala Gly
 1085 1090 1095
 Asn Ser Ser Gln Ser Arg Pro Cys Pro Tyr Ser Glu Ile Arg Val
 1100 1105 1110
 Ile Leu Pro Ala Ser Ser Met Glu Glu Ala Thr Asp Cys Ala Gly
 1115 1120 1125
 Phe Asn Leu Ile His Leu Val Ala Thr Gly Ile Ser Cys Phe Leu
 1130 1135 1140
 Gly Ser Gly Leu Leu Thr Leu Ala Val Tyr Leu Ser Cys Gln His
 1145 1150 1155
 Cys Gln Arg Gln Ser Gln Glu Ser Thr Leu Val His Pro Ala Thr
 1160 1165 1170
 Pro Asn His Leu His Tyr Lys Gly Gly Gly Thr Pro Lys Asn Glu
 1175 1180 1185
 Lys Tyr Thr Pro Met Glu Phe Lys Thr Leu Asn Lys Asn Asn Leu
 1190 1195 1200
 Ile Pro Asp Asp Arg Ala Asn Phe Tyr Pro Leu Gln Gln Thr Asn
 1205 1210 1215
 Val Tyr Thr Thr Tyr Tyr Pro Ser Pro Leu Asn Lys His Ser
 1220 1225 1230
 Phe Arg Pro Glu Ala Ser Pro Gly Gln Arg Cys Phe Pro Asn Ser
 1235 1240 1245

<210> 23
 <211> 1150
 <212> PRT
 <213> Homo sapiens

<400> 23
 Ala Ala Ala Pro Phe Pro Asp Arg Pro Pro Ala His Leu Val Ser Ser
 1 5 10 15
 Arg Arg Ser Ala Pro Pro Gly Ser Arg Glu Pro Arg Gly Thr Gly His
 20 25 30
 Leu His Pro Pro Leu Gly Gly Leu Leu Pro Cys Leu Pro Pro Gly Ala
 35 40 45

Arg Thr Ala Glu Gly Pro Ile Met Val Leu Ala Gly Pro Leu Ala Val
 50 55 60

Ser Leu Leu Leu Pro Ser Leu Thr Leu Leu Val Ser His Leu Ser Ser
 65 70 75 80

Ser Gln Asp Val Ser Ser Glu Pro Ser Ser Glu Gln Gln Leu Cys Ala
 85 90 95

Leu Ser Lys His Pro Thr Val Ala Phe Glu Asp Leu Gln Pro Trp Val
 100 105 110

Ser Asn Phe Thr Tyr Pro Gly Ala Arg Asp Phe Ser Gln Leu Ala Leu
 115 120 125

Asp Pro Ser Gly Asn Gln Leu Ile Val Gly Ala Arg Asn Tyr Leu Phe
 130 135 140

Arg Leu Ser Leu Ala Asn Val Ser Leu Leu Gln Ala Thr Glu Trp Ala
 145 150 155 160

Ser Ser Glu Asp Thr Arg Arg Ser Cys Gln Ser Lys Gly Lys Thr Glu
 165 170 175

Glu Glu Cys Gln Asn Tyr Val Arg Val Leu Ile Val Ala Gly Arg Lys
 180 185 190

Val Phe Met Cys Gly Thr Asn Ala Phe Ser Pro Met Cys Thr Ser Arg
 195 200 205

Gln Val Gly Asn Leu Ser Arg Thr Thr Glu Lys Ile Asn Gly Val Ala
 210 215 220

Arg Cys Pro Tyr Asp Pro Arg His Asn Ser Thr Ala Val Ile Ser Ser
 225 230 235 240

Gln Gly Glu Leu Tyr Ala Ala Thr Val Ile Asp Phe Ser Gly Arg Asp
 245 250 255

Pro Ala Ile Tyr Arg Ser Leu Gly Ser Gly Pro Pro Leu Arg Thr Ala
 260 265 270

Gln Tyr Asn Ser Lys Trp Leu Asn Glu Pro Asn Phe Val Ala Ala Tyr
 275 280 285

Asp Ile Gly Leu Phe Ala Tyr Phe Phe Leu Arg Glu Asn Ala Val Glu
 290 295 300

His Asp Cys Gly Arg Thr Val Tyr Ser Arg Val Ala Arg Val Cys Lys
 305 310 315 320

Asn Asp Val Gly Gly Arg Phe Leu Leu Glu Asp Thr Trp Thr Thr Phe
 325 330 335

Met Lys Ala Arg Leu Asn Cys Ser Arg Pro Gly Glu Val Pro Phe Tyr
 340 345 350

Tyr Asn Glu Leu Gln Ser Ala Phe His Leu Pro Glu Gln Asp Leu Ile
 355 360 365

Tyr Gly Val Phe Thr Thr Asn Val Asn Ser Ile Ala Ala Ser Ala Val
 370 375 380

Cys Ala Phe Asn Leu Ser Ala Ile Ser Gln Ala Phe Asn Gly Pro Phe
 385 390 395 400

Arg Tyr Gln Glu Asn Pro Arg Ala Ala Trp Leu Pro Ile Ala Asn Pro
 405 410 415

Ile Pro Asn Phe Gln Cys Gly Thr Leu Pro Glu Thr Gly Pro Asn Glu
 420 425 430

Asn Leu Thr Glu Arg Ser Leu Gln Asp Ala Gln Arg Leu Phe Leu Met
 435 440 445

Ser Glu Ala Val Gln Pro Val Thr Pro Glu Pro Cys Val Thr Gln Asp
 450 455 460

Ser Val Arg Phe Ser His Leu Val Val Asp Leu Val Gln Ala Lys Asp
 465 470 475 480

Thr Leu Tyr His Val Leu Tyr Ile Gly Thr Glu Ser Gly Thr Ile Leu
 485 490 495

Lys Ala Leu Ser Thr Ala Ser Arg Ser Leu His Gly Cys Tyr Leu Glu
 500 505 510

Glu Leu His Val Leu Pro Pro Gly Arg Arg Glu Pro Leu Arg Ser Leu
 515 520 525

Arg Ile Leu His Ser Ala Arg Ala Leu Phe Val Gly Leu Arg Asp Gly
 530 535 540

Val Leu Arg Val Pro Leu Glu Arg Cys Ala Ala Tyr Arg Ser Gln Gly
 545 550 555 560

Ala Cys Leu Gly Ala Arg Asp Pro Tyr Cys Gly Trp Asp Gly Lys Gln
 565 570 575

Gln Arg Cys Ser Thr Leu Glu Asp Ser Ser Asn Met Ser Leu Trp Thr
 580 585 590

Gln Asn Ile Thr Ala Cys Pro Val Arg Asn Val Thr Arg Asp Gly Gly
 595 600 605

Phe Gly Pro Trp Ser Pro Trp Gln Pro Cys Glu His Leu Asp Gly Asp
 610 615 620

Asn Ser Gly Ser Cys Leu Cys Arg Ala Arg Ser Cys Asp Ser Pro Arg
 625 630 635 640

Pro Arg Cys Gly Gly Leu Asp Cys Leu Gly Pro Ala Ile His Ile Ala
 645 650 655

Asn Cys Ser Arg Asn Gly Ala Val Asp Pro Val Val His Arg Gly Pro
 660 665 670

Leu Cys Ser His Val Leu Trp His Ala Ala Ser Arg Ser Ala Ser Glu
 675 680 685

Val Ala Ala Thr Leu Leu Pro Ala Thr Gly Ala Ala Ser Ala Trp Ala

690	695	700
Arg Ala Trp Glu Glu Arg Phe Cys Asn Glu Asn Thr Pro Cys Pro Val		
705	710	715
Pro Ile Phe Trp Ala Ser Trp Gly Ser Trp Ser Lys Cys Ser Ser Asn		
725	730	735
Cys Gly Gly Gly Met Gln Ser Arg Arg Arg Ala Cys Glu Asn Gly Asn		
740	745	750
Ser Cys Leu Gly Cys Gly Val Glu Phe Lys Thr Cys Asn Pro Glu Gly		
755	760	765
Cys Pro Glu Val Arg Arg Asn Thr Pro Trp Thr Pro Trp Leu Pro Val		
770	775	780
Asn Val Thr Gln Gly Gly Ala Arg Gln Glu Gln Arg Phe Arg Phe Thr		
785	790	795
800		
Cys Arg Ala Pro Leu Ala Asp Pro His Gly Leu Gln Phe Gly Arg Arg		
805	810	815
Arg Thr Glu Thr Arg Thr Cys Pro Ala Asp Gly Ser Gly Ser Cys Asp		
820	825	830
Thr Asp Ala Leu Val Glu Val Leu Leu Arg Ser Gly Ser Thr Ser Pro		
835	840	845
His Thr Val Ser Gly Gly Trp Ala Ala Trp Gly Pro Trp Ser Ser Cys		
850	855	860
Ser Arg Asp Cys Glu Leu Gly Phe Arg Val Arg Lys Arg Thr Cys Thr		
865	870	875
880		
Asn Pro Glu Pro Arg Asn Gly Gly Leu Pro Cys Val Gly Asp Ala Ala		
885	890	895
Glu Tyr Gln Asp Cys Asn Pro Gln Ala Cys Pro Val Arg Gly Ala Trp		
900	905	910
Ser Cys Trp Thr Ser Trp Ser Pro Cys Ser Ala Ser Cys Gly Gly Gly		
915	920	925
His Tyr Gln Arg Thr Arg Ser Cys Thr Ser Pro Ala Pro Ser Pro Gly		
930	935	940
Glu Asp Ile Cys Leu Gly Leu His Thr Glu Glu Ala Leu Cys Ala Thr		
945	950	955
960		
Gln Ala Cys Pro Glu Gly Trp Ser Pro Trp Ser Glu Trp Ser Lys Cys		
965	970	975
Thr Asp Asp Gly Ala Gln Ser Arg Ser Arg His Cys Glu Glu Leu Leu		
980	985	990
Pro Gly Ser Ser Ala Cys Ala Gly Asn Ser Ser Gln Ser Arg Pro Cys		
995	1000	1005
Pro Tyr Ser Glu Ile Arg Val Ile Leu Pro Ala Ser Ser Met Glu		
1010	1015	1020

Glu Ala Thr Asp Cys Ala Gly Phe Asn Leu Ile His Leu Val Ala
 1025 1030 1035

Thr Gly Ile Ser Cys Phe Leu Gly Ser Gly Leu Leu Thr Leu Ala
 1040 1045 1050

Val Tyr Leu Ser Cys Gln His Cys Gln Arg Gln Ser Gln Glu Ser
 1055 1060 1065

Thr Leu Val His Pro Ala Thr Pro Asn His Leu His Tyr Lys Gly
 1070 1075 1080

Gly Gly Thr Pro Lys Asn Glu Lys Tyr Thr Pro Met Glu Phe Lys
 1085 1090 1095

Thr Leu Asn Lys Asn Asn Leu Ile Pro Asp Asp Arg Ala Asn Phe
 1100 1105 1110

Tyr Pro Leu Gln Gln Thr Asn Val Tyr Thr Thr Thr Tyr Tyr Pro
 1115 1120 1125

Ser Pro Leu Asn Lys His Ser Phe Arg Pro Glu Ala Ser Pro Gly
 1130 1135 1140

Gln Arg Cys Phe Pro Asn Ser
 1145 1150

<210> 24

<211> 1211

<212> PRT

<213> Homo sapiens

<400> 24

Ala Ala Ala Pro Phe Pro Asp Arg Pro Pro Ala His Leu Val Ser Ser
 1 5 10 15

Arg Arg Ser Ala Pro Pro Gly Ser Arg Glu Pro Arg Gly Thr Gly His
 20 25 30

Leu His Pro Pro Leu Gly Val Ser Gly Ser Ser Trp Cys Leu Ala Cys
 35 40 45

Val Ser Trp Met Pro Cys Gly Phe Ser Pro Ser Pro Val Ala His His
 50 55 60

Leu Val Pro Gly Pro Pro Asp Thr Pro Ala Gln Gln Leu Arg Cys Gly
 65 70 75 80

Trp Thr Val Gly Gly Trp Leu Leu Ser Leu Val Arg Gly Leu Leu Pro
 85 90 95

Cys Leu Pro Pro Gly Ala Arg Thr Ala Glu Gly Pro Ile Met Val Leu
 100 105 110

Ala Gly Pro Leu Ala Val Ser Leu Leu Leu Pro Ser Leu Thr Leu Leu
 115 120 125

Val Ser His Leu Ser Ser Ser Gln Asp Val Ser Ser Glu Pro Ser Ser
 130 135 140

Glu Gln Gln Leu Cys Ala Leu Ser Lys His Pro Thr Val Ala Phe Glu
 145 150 155 160
 Asp Leu Gln Pro Trp Val Ser Asn Phe Thr Tyr Pro Gly Ala Arg Asp
 165 170 175
 Phe Ser Gln Leu Ala Leu Asp Pro Ser Gly Asn Gln Leu Ile Val Gly
 180 185 190
 Ala Arg Asn Tyr Leu Phe Arg Leu Ser Leu Ala Asn Val Ser Leu Leu
 195 200 205
 Gln Ala Thr Glu Trp Ala Ser Ser Glu Asp Thr Arg Arg Ser Cys Gln
 210 215 220
 Ser Lys Gly Lys Thr Glu Glu Glu Cys Gln Asn Tyr Val Arg Val Leu
 225 230 235 240
 Ile Val Ala Gly Arg Lys Val Phe Met Cys Gly Thr Asn Ala Phe Ser
 245 250 255
 Pro Met Cys Thr Ser Arg Gln Val Gly Asn Leu Ser Arg Thr Thr Glu
 260 265 270
 Lys Ile Asn Gly Val Ala Arg Cys Pro Tyr Asp Pro Arg His Asn Ser
 275 280 285
 Thr Ala Val Ile Ser Ser Gln Gly Glu Leu Tyr Ala Ala Thr Val Ile
 290 295 300
 Asp Phe Ser Gly Arg Asp Pro Ala Ile Tyr Arg Ser Leu Gly Ser Gly
 305 310 315 320
 Pro Pro Leu Arg Thr Ala Gln Tyr Asn Ser Lys Trp Leu Asn Glu Pro
 325 330 335
 Asn Phe Val Ala Ala Tyr Asp Ile Gly Leu Phe Ala Tyr Phe Phe Leu
 340 345 350
 Arg Glu Asn Ala Val Glu His Asp Cys Gly Arg Thr Val Tyr Ser Arg
 355 360 365
 Val Ala Arg Val Cys Lys Asn Asp Val Gly Gly Arg Phe Leu Leu Glu
 370 375 380
 Asp Thr Trp Thr Thr Phe Met Lys Ala Arg Leu Asn Cys Ser Arg Pro
 385 390 395 400
 Gly Glu Val Pro Phe Tyr Tyr Asn Glu Leu Gln Ser Ala Phe His Leu
 405 410 415
 Pro Glu Gln Asp Leu Ile Tyr Gly Val Phe Thr Thr Asn Val Asn Ser
 420 425 430
 Ile Ala Ala Ser Ala Val Cys Ala Phe Asn Leu Ser Ala Ile Ser Gln
 435 440 445
 Ala Phe Asn Gly Pro Phe Arg Tyr Gln Glu Asn Pro Arg Ala Ala Trp
 450 455 460

Leu Pro Ile Ala Asn Pro Ile Pro Asn Phe Gln Cys Gly Thr Leu Pro
 465 470 475 480
 Glu Thr Gly Pro Asn Glu Asn Leu Thr Glu Arg Ser Leu Gln Asp Ala
 485 490 495
 Gln Arg Leu Phe Leu Met Ser Glu Ala Val Gln Pro Val Thr Pro Glu
 500 505 510
 Pro Cys Val Thr Gln Asp Ser Val Arg Phe Ser His Leu Val Val Asp
 515 520 525
 Leu Val Gln Ala Lys Asp Thr Leu Tyr His Val Leu Tyr Ile Gly Thr
 530 535 540
 Glu Ser Gly Thr Ile Leu Lys Ala Leu Ser Thr Ala Ser Arg Ser Leu
 545 550 555 560
 His Gly Cys Tyr Leu Glu Glu Leu His Val Leu Pro Pro Gly Arg Arg
 565 570 575
 Glu Pro Leu Arg Ser Leu Arg Ile Leu His Ser Ala Arg Ala Leu Phe
 580 585 590
 Val Gly Leu Arg Asp Gly Val Leu Arg Val Pro Leu Glu Arg Cys Ala
 595 600 605
 Ala Tyr Arg Ser Gln Gly Ala Cys Leu Gly Ala Arg Asp Pro Tyr Cys
 610 615 620
 Gly Trp Asp Gly Lys Gln Gln Arg Cys Ser Thr Leu Glu Asp Ser Ser
 625 630 635 640
 Asn Met Ser Leu Trp Thr Gln Asn Ile Thr Ala Cys Pro Val Arg Asn
 645 650 655
 Val Thr Arg Asp Gly Gly Phe Gly Pro Trp Ser Pro Trp Gln Pro Cys
 660 665 670
 Glu His Leu Asp Gly Asp Asn Ser Gly Ser Cys Leu Cys Arg Ala Arg
 675 680 685
 Ser Cys Asp Ser Pro Arg Pro Arg Cys Gly Gly Leu Asp Cys Leu Gly
 690 695 700
 Pro Ala Ile His Ile Ala Asn Cys Ser Arg Asn Gly Ala Val Asp Pro
 705 710 715 720
 Val Val Ile Val Gly Arg Cys Ala Ala Thr Ser Cys Gly Ile Gly Phe
 725 730 735
 Gln Val Arg Gln Arg Ser Cys Ser Asn Pro Ala Pro Arg His Gly Gly
 740 745 750
 Arg Ile Cys Val Gly Lys Ser Arg Glu Glu Arg Phe Cys Asn Glu Asn
 755 760 765
 Thr Pro Cys Pro Val Pro Ile Phe Trp Ala Ser Trp Gly Ser Trp Ser
 770 775 780
 Lys Cys Ser Ser Asn Cys Gly Gly Met Gln Ser Arg Arg Arg Ala

785	790	795	800
Cys Glu Asn Gly Asn Ser Cys Leu Gly Cys Gly Val Glu Phe Lys Thr			
805	810	815	
Cys Asn Pro Glu Gly Cys Pro Glu Val Arg Arg Asn Thr Pro Trp Thr			
820	825	830	
Pro Trp Leu Pro Val Asn Val Thr Gln Gly Gly Ala Arg Gln Glu Gln			
835	840	845	
Arg Phe Arg Phe Thr Cys Arg Ala Pro Leu Ala Asp Pro His Gly Leu			
850	855	860	
Gln Phe Gly Arg Arg Arg Thr Glu Thr Arg Thr Cys Pro Ala Asp Gly			
865	870	875	880
Ser Gly Ser Cys Asp Thr Asp Ala Leu Val Glu Val Leu Leu Arg Ser			
885	890	895	
Gly Ser Thr Ser Pro His Thr Val Ser Gly Gly Trp Ala Ala Trp Gly			
900	905	910	
Pro Trp Ser Ser Cys Ser Arg Asp Cys Glu Leu Gly Phe Arg Val Arg			
915	920	925	
Lys Arg Thr Cys Thr Asn Pro Glu Pro Arg Asn Gly Gly Leu Pro Cys			
930	935	940	
Val Gly Asp Ala Ala Glu Tyr Gln Asp Cys Asn Pro Gln Ala Cys Pro			
945	950	955	960
Val Arg Gly Ala Trp Ser Cys Trp Thr Ser Trp Ser Pro Cys Ser Ala			
965	970	975	
Ser Cys Gly Gly His Tyr Gln Arg Thr Arg Ser Cys Thr Ser Pro			
980	985	990	
Ala Pro Ser Pro Gly Glu Asp Ile Cys Leu Gly Leu His Thr Glu Glu			
995	1000	1005	
Ala Leu Cys Ala Thr Gln Ala Cys Pro Glu Gly Trp Ser Pro Trp			
1010	1015	1020	
Ser Glu Trp Ser Lys Cys Thr Asp Asp Gly Ala Gln Ser Arg Ser			
1025	1030	1035	
Arg His Cys Glu Glu Leu Leu Pro Gly Ser Ser Ala Cys Ala Gly			
1040	1045	1050	
Asn Ser Ser Gln Ser Arg Pro Cys Pro Tyr Ser Glu Ile Arg Val			
1055	1060	1065	
Ile Leu Pro Ala Ser Ser Met Glu Glu Ala Thr Asp Cys Ala Gly			
1070	1075	1080	
Phe Asn Leu Ile His Leu Val Ala Thr Gly Ile Ser Cys Phe Leu			
1085	1090	1095	
Gly Ser Gly Leu Leu Thr Leu Ala Val Tyr Leu Ser Cys Gln His			
1100	1105	1110	

Cys Gln Arg Gln Ser Gln Glu Ser Thr Leu Val His Pro Ala Thr
 1115 1120 1125

Pro Asn His Leu His Tyr Lys Gly Gly Gly Thr Pro Lys Asn Glu
 1130 1135 1140

Lys Tyr Thr Pro Met Glu Phe Lys Thr Leu Asn Lys Asn Asn Leu
 1145 1150 1155

Ile Pro Asp Asp Arg Ala Asn Phe Tyr Pro Leu Gln Gln Thr Asn
 1160 1165 1170

Ala Ser Ala Gly Tyr Pro Pro Leu Pro Gly Ser Leu Tyr Ser Thr
 1175 1180 1185

Gln Gly Ile Pro Leu Val Arg Gly Ser Glu Tyr Trp Glu Leu Glu
 1190 1195 1200

Ala Asp Leu Cys Leu Glu Val Leu
 1205 1210

<210> 25

<211> 1203

<212> PRT

<213> Homo sapiens

<400> 25

Ala Ala Ala Pro Phe Pro Asp Arg Pro Pro Ala His Leu Val Ser Ser
 1 5 10 15

Arg Arg Ser Ala Pro Pro Gly Ser Arg Glu Pro Arg Gly Thr Gly His
 20 25 30

Leu His Pro Pro Leu Gly Val Ser Gly Ser Ser Trp Cys Leu Ala Cys
 35 40 45

Val Ser Trp Met Pro Cys Gly Phe Ser Pro Ser Pro Val Ala His His
 50 55 60

Leu Val Pro Gly Pro Pro Asp Thr Pro Ala Gln Gln Leu Arg Cys Gly
 65 70 75 80

Trp Thr Val Gly Gly Trp Leu Leu Ser Leu Val Arg Gly Leu Leu Pro
 85 90 95

Cys Leu Pro Pro Gly Ala Arg Thr Ala Glu Gly Pro Ile Met Val Leu
 100 105 110

Ala Gly Pro Leu Ala Val Ser Leu Leu Leu Pro Ser Leu Thr Leu Leu
 115 120 125

Val Ser His Leu Ser Ser Ser Gln Asp Val Ser Ser Glu Pro Ser Ser
 130 135 140

Glu Gln Gln Leu Cys Ala Leu Ser Lys His Pro Thr Val Ala Phe Glu
 145 150 155 160

Asp Leu Gln Pro Trp Val Ser Asn Phe Thr Tyr Pro Gly Ala Arg Asp

165

170

175

Phe Ser Gln Leu Ala Leu Asp Pro Ser Gly Asn Gln Leu Ile Val Gly
 180 185 190

Ala Arg Asn Tyr Leu Phe Arg Leu Ser Leu Ala Asn Val Ser Leu Leu
 195 200 205

Gln Ala Thr Glu Trp Ala Ser Ser Glu Asp Thr Arg Arg Ser Cys Gln
 210 215 220

Ser Lys Gly Lys Thr Glu Glu Glu Cys Gln Asn Tyr Val Arg Val Leu
 225 230 235 240

Ile Val Ala Gly Arg Lys Val Phe Met Cys Gly Thr Asn Ala Phe Ser
 245 250 255

Pro Met Cys Thr Ser Arg Gln Val Gly Asn Leu Ser Arg Thr Thr Glu
 260 265 270

Lys Ile Asn Gly Val Ala Arg Cys Pro Tyr Asp Pro Arg His Asn Ser
 275 280 285

Thr Ala Val Ile Ser Ser Gln Gly Glu Leu Tyr Ala Ala Thr Val Ile
 290 295 300

Asp Phe Ser Gly Arg Asp Pro Ala Ile Tyr Arg Ser Leu Gly Ser Gly
 305 310 315 320

Pro Pro Leu Arg Thr Ala Gln Tyr Asn Ser Lys Trp Leu Asn Glu Pro
 325 330 335

Asn Phe Val Ala Ala Tyr Asp Ile Gly Leu Phe Ala Tyr Phe Phe Leu
 340 345 350

Arg Glu Asn Ala Val Glu His Asp Cys Gly Arg Thr Val Tyr Ser Arg
 355 360 365

Val Ala Arg Val Cys Lys Asn Asp Val Gly Gly Arg Phe Leu Leu Glu
 370 375 380

Asp Thr Trp Thr Thr Phe Met Lys Ala Arg Leu Asn Cys Ser Arg Pro
 385 390 395 400

Gly Glu Val Pro Phe Tyr Tyr Asn Glu Leu Gln Ser Ala Phe His Leu
 405 410 415

Pro Glu Gln Asp Leu Ile Tyr Gly Val Phe Thr Thr Asn Val Asn Ser
 420 425 430

Ile Ala Ala Ser Ala Val Cys Ala Phe Asn Leu Ser Ala Ile Ser Gln
 435 440 445

Ala Phe Asn Gly Pro Phe Arg Tyr Gln Glu Asn Pro Arg Ala Ala Trp
 450 455 460

Leu Pro Ile Ala Asn Pro Ile Pro Asn Phe Gln Cys Gly Thr Leu Pro
 465 470 475 480

Glu Thr Gly Pro Asn Glu Asn Leu Thr Glu Arg Ser Leu Gln Asp Ala
 485 490 495

Gln Arg Leu Phe Leu Met Ser Glu Ala Val Gln Pro Val Thr Pro Glu
 500 505 510

Pro Cys Val Thr Gln Asp Ser Val Arg Phe Ser His Leu Val Val Asp
 515 520 525

Leu Val Gln Ala Lys Asp Thr Leu Tyr His Val Leu Tyr Ile Gly Thr
 530 535 540

Glu Ser Gly Thr Ile Leu Lys Ala Leu Ser Thr Ala Ser Arg Ser Leu
 545 550 555 560

His Gly Cys Tyr Leu Glu Glu Leu His Val Leu Pro Pro Gly Arg Arg
 565 570 575

Glu Pro Leu Arg Ser Leu Arg Ile Leu His Ser Ala Arg Ala Leu Phe
 580 585 590

Val Gly Leu Arg Asp Gly Val Leu Arg Val Pro Leu Glu Arg Cys Ala
 595 600 605

Ala Tyr Arg Ser Gln Gly Ala Cys Leu Gly Ala Arg Asp Pro Tyr Cys
 610 615 620

Gly Trp Asp Gly Lys Gln Gln Arg Cys Ser Thr Leu Glu Asp Ser Ser
 625 630 635 640

Asn Met Ser Leu Trp Thr Gln Asn Ile Thr Ala Cys Pro Val Arg Asn
 645 650 655

Val Thr Arg Asp Gly Gly Phe Gly Pro Trp Ser Pro Trp Gln Pro Cys
 660 665 670

Glu His Leu Asp Gly Asp Asn Ser Gly Ser Cys Leu Cys Arg Ala Arg
 675 680 685

Ser Cys Asp Ser Pro Arg Pro Arg Cys Gly Gly Leu Asp Cys Leu Gly
 690 695 700

Pro Ala Ile His Ile Ala Asn Cys Ser Arg Asn Gly Ala Val Asp Pro
 705 710 715 720

Val Val Ile Val Gly Arg Cys Ala Ala Thr Ser Cys Gly Ile Gly Phe
 725 730 735

Gln Val Arg Gln Arg Ser Cys Ser Asn Pro Ala Pro Arg His Gly Gly
 740 745 750

Arg Ile Cys Val Gly Lys Ser Arg Glu Glu Arg Phe Cys Asn Glu Asn
 755 760 765

Thr Pro Cys Pro Val Pro Ile Phe Trp Ala Ser Trp Gly Ser Trp Ser
 770 775 780

Lys Cys Ser Ser Asn Cys Gly Gly Met Gln Ser Arg Arg Arg Ala
 785 790 795 800

Cys Glu Asn Gly Asn Ser Cys Leu Gly Cys Gly Val Glu Phe Lys Thr
 805 810 815

Cys Asn Pro Glu Gly Cys Pro Glu Val Arg Arg Asn Thr Pro Trp Thr
 820 825 830
 Pro Trp Leu Pro Val Asn Val Thr Gln Gly Gly Ala Arg Gln Glu Gln
 835 840 845
 Arg Phe Arg Phe Thr Cys Arg Ala Pro Leu Ala Asp Pro His Gly Leu
 850 855 860
 Gln Phe Gly Arg Arg Arg Thr Glu Thr Arg Thr Cys Pro Ala Asp Gly
 865 870 875 880
 Ser Gly Ser Cys Asp Thr Asp Ala Leu Val Glu Val Leu Leu Arg Ser
 885 890 895
 Gly Ser Thr Ser Pro His Thr Val Ser Gly Gly Trp Ala Ala Trp Gly
 900 905 910
 Pro Trp Ser Ser Cys Ser Arg Asp Cys Glu Leu Gly Phe Arg Val Arg
 915 920 925
 Lys Arg Thr Cys Thr Asn Pro Glu Pro Arg Asn Gly Gly Leu Pro Cys
 930 935 940
 Val Gly Asp Ala Ala Glu Tyr Gln Asp Cys Asn Pro Gln Ala Cys Pro
 945 950 955 960
 Val Arg Gly Ala Trp Ser Cys Trp Thr Ser Trp Ser Pro Cys Ser Ala
 965 970 975
 Ser Cys Gly Gly His Tyr Gln Arg Thr Arg Ser Cys Thr Ser Pro
 980 985 990
 Ala Pro Ser Pro Gly Glu Asp Ile Cys Leu Gly Leu His Thr Glu Glu
 995 1000 1005
 Ala Leu Cys Ala Thr Gln Ala Cys Pro Glu Gly Trp Ser Pro Trp
 1010 1015 1020
 Ser Glu Trp Ser Lys Cys Thr Asp Asp Gly Ala Gln Ser Arg Ser
 1025 1030 1035
 Arg His Cys Glu Glu Leu Leu Pro Gly Ser Ser Ala Cys Ala Gly
 1040 1045 1050
 Asn Ser Ser Gln Ser Arg Pro Cys Pro Tyr Ser Glu Ile Arg Val
 1055 1060 1065
 Ile Leu Pro Ala Ser Ser Met Glu Glu Ala Thr Asp Cys Ala Gly
 1070 1075 1080
 Phe Asn Leu Ile His Leu Val Ala Thr Gly Ile Ser Cys Phe Leu
 1085 1090 1095
 Gly Ser Gly Leu Leu Thr Leu Ala Val Tyr Leu Ser Cys Gln His
 1100 1105 1110
 Cys Gln Arg Gln Ser Gln Glu Ser Thr Leu Val His Pro Ala Thr
 1115 1120 1125
 Pro Asn His Leu His Tyr Lys Gly Gly Gly Thr Pro Lys Asn Glu

1130	1135	1140
Lys Tyr Thr Pro Met Glu Phe	Lys Thr Leu Asn Lys	Asn Asn Leu
1145	1150	1155
Ile Pro Asp Asp Arg Ala Asn	Phe Tyr Pro Leu Gln	Gln Thr Asn
1160	1165	1170
Val Tyr Thr Thr Tyr Tyr	Pro Ser Pro Leu Asn	Lys His Ser
1175	1180	1185
Phe Arg Pro Glu Ala Ser Pro	Gly Gln Arg Cys Phe	Pro Asn Ser
1190	1195	1200

<210> 26
 <211> 1240
 <212> PRT
 <213> Homo sapiens

<400> 26			
Ala Ala Ala Pro Phe Pro Asp Arg Pro Pro Ala His Leu Val Ser Ser			
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Arg Arg Ser Ala Pro Pro Gly Ser Arg Glu Pro Arg Gly Thr Gly His			
20	25	30	
Leu His Pro Pro Leu Gly Val Ser Gly Ser Ser Trp Cys Leu Ala Cys			
35	40	45	
Val Ser Trp Met Pro Cys Gly Phe Ser Pro Ser Pro Val Ala His His			
50	55	60	
Leu Val Pro Gly Pro Pro Asp Thr Pro Ala Gln Gln Leu Arg Cys Gly			
65	70	75	80
Trp Thr Val Gly Gly Trp Leu Leu Ser Leu Val Arg Gly Arg Lys Pro			
85	90	95	
Ser Gly Asp Phe Glu Trp Arg Gln Gly Trp Arg Gly Pro Gly Glu Glu			
100	105	110	
Asp Trp Pro Glu Ser Pro Ser Pro Lys Val Leu Met Asp Ser Ala Gly			
115	120	125	
Gly Leu Leu Pro Cys Leu Pro Pro Gly Ala Arg Thr Ala Glu Gly Pro			
130	135	140	
Ile Met Val Leu Ala Gly Pro Leu Ala Val Ser Leu Leu Leu Pro Ser			
145	150	155	160
Leu Thr Leu Leu Val Ser His Leu Ser Ser Ser Gln Asp Val Ser Ser			
165	170	175	
Glu Pro Ser Ser Glu Gln Gln Leu Cys Ala Leu Ser Lys His Pro Thr			
180	185	190	
Val Ala Phe Glu Asp Leu Gln Pro Trp Val Ser Asn Phe Thr Tyr Pro			
195	200	205	
Gly Ala Arg Asp Phe Ser Gln Leu Ala Leu Asp Pro Ser Gly Asn Gln			

210

215

220

Leu Ile Val Gly Ala Arg Asn Tyr Leu Phe Arg Leu Ser Leu Ala Asn
 225 230 235 240

Val Ser Leu Leu Gln Ala Thr Glu Trp Ala Ser Ser Glu Asp Thr Arg
 245 250 255

Arg Ser Cys Gln Ser Lys Gly Lys Thr Glu Glu Glu Cys Gln Asn Tyr
 260 265 270

Val Arg Val Leu Ile Val Ala Gly Arg Lys Val Phe Met Cys Gly Thr
 275 280 285

Asn Ala Phe Ser Pro Met Cys Thr Ser Arg Gln Val Gly Asn Leu Ser
 290 295 300

Arg Thr Thr Glu Lys Ile Asn Gly Val Ala Arg Cys Pro Tyr Asp Pro
 305 310 315 320

Arg His Asn Ser Thr Ala Val Ile Ser Ser Gln Gly Glu Leu Tyr Ala
 325 330 335

Ala Thr Val Ile Asp Phe Ser Gly Arg Asp Pro Ala Ile Tyr Arg Ser
 340 345 350

Leu Gly Ser Gly Pro Pro Leu Arg Thr Ala Gln Tyr Asn Ser Lys Trp
 355 360 365

Leu Asn Glu Pro Asn Phe Val Ala Ala Tyr Asp Ile Gly Leu Phe Ala
 370 375 380

Tyr Phe Phe Leu Arg Glu Asn Ala Val Glu His Asp Cys Gly Arg Thr
 385 390 395 400

Val Tyr Ser Arg Val Ala Arg Val Cys Lys Asn Asp Val Gly Gly Arg
 405 410 415

Phe Leu Leu Glu Asp Thr Trp Thr Phe Met Lys Ala Arg Leu Asn
 420 425 430

Cys Ser Arg Pro Gly Glu Val Pro Phe Tyr Tyr Asn Glu Leu Gln Ser
 435 440 445

Ala Phe His Leu Pro Glu Gln Asp Leu Ile Tyr Gly Val Phe Thr Thr
 450 455 460

Asn Val Asn Ser Ile Ala Ala Ser Ala Val Cys Ala Phe Asn Leu Ser
 465 470 475 480

Ala Ile Ser Gln Ala Phe Asn Gly Pro Phe Arg Tyr Gln Glu Asn Pro
 485 490 495

Arg Ala Ala Trp Leu Pro Ile Ala Asn Pro Ile Pro Asn Phe Gln Cys
 500 505 510

Gly Thr Leu Pro Glu Thr Gly Pro Asn Glu Asn Leu Thr Glu Arg Ser
 515 520 525

Leu Gln Asp Ala Gln Arg Leu Phe Leu Met Ser Glu Ala Val Gln Pro
 530 535 540

Val Thr Pro Glu Pro Cys Val Thr Gln Asp Ser Val Arg Phe Ser His
 545 550 555 560
 Leu Val Val Asp Leu Val Gln Ala Lys Asp Thr Leu Tyr His Val Leu
 565 570 575
 Tyr Ile Gly Thr Glu Ser Gly Thr Ile Leu Lys Ala Leu Ser Thr Ala
 580 585 590
 Ser Arg Ser Leu His Gly Cys Tyr Leu Glu Glu Leu His Val Leu Pro
 595 600 605
 Pro Gly Arg Arg Glu Pro Leu Arg Ser Leu Arg Ile Leu His Ser Ala
 610 615 620
 Arg Ala Leu Phe Val Gly Leu Arg Asp Gly Val Leu Arg Val Pro Leu
 625 630 635 640
 Glu Arg Cys Ala Ala Tyr Arg Ser Gln Gly Ala Cys Leu Gly Ala Arg
 645 650 655
 Asp Pro Tyr Cys Gly Trp Asp Gly Lys Gln Gln Arg Cys Ser Thr Leu
 660 665 670
 Glu Asp Ser Ser Asn Met Ser Leu Trp Thr Gln Asn Ile Thr Ala Cys
 675 680 685
 Pro Val Arg Asn Val Thr Arg Asp Gly Gly Phe Gly Pro Trp Ser Pro
 690 695 700
 Trp Gln Pro Cys Glu His Leu Asp Gly Asp Asn Ser Gly Ser Cys Leu
 705 710 715 720
 Cys Arg Ala Arg Ser Cys Asp Ser Pro Arg Pro Arg Cys Gly Gly Leu
 725 730 735
 Asp Cys Leu Gly Pro Ala Ile His Ile Ala Asn Cys Ser Arg Asn Gly
 740 745 750
 Gly Arg Gly Pro Arg Gly Ala Ser Trp Ala Ala Val Gln Ala Arg Pro
 755 760 765
 Val Ala Ser Gly Phe Gln Val Arg Gln Arg Ser Cys Ser Asn Pro Ala
 770 775 780
 Pro Arg His Gly Gly Arg Ile Cys Val Gly Lys Ser Arg Glu Glu Arg
 785 790 795 800
 Phe Cys Asn Glu Asn Thr Pro Cys Pro Val Pro Ile Phe Trp Ala Ser
 805 810 815
 Trp Gly Ser Trp Ser Lys Cys Ser Ser Asn Cys Gly Gly Met Gln
 820 825 830
 Ser Arg Arg Arg Ala Cys Glu Asn Gly Asn Ser Cys Leu Gly Cys Gly
 835 840 845
 Val Glu Phe Lys Thr Cys Asn Pro Glu Gly Cys Pro Glu Val Arg Arg
 850 855 860

Asn Thr Pro Trp Thr Pro Trp Leu Pro Val Asn Val Thr Gln Gly Gly
 865 870 875 880

Ala Arg Gln Glu Gln Arg Phe Arg Phe Thr Cys Arg Ala Pro Leu Ala
 885 890 895

Asp Pro His Gly Leu Gln Phe Gly Arg Arg Arg Thr Glu Thr Arg Thr
 900 905 910

Cys Pro Ala Asp Gly Ser Gly Ser Cys Asp Thr Asp Ala Leu Val Glu
 915 920 925

Val Leu Leu Arg Ser Gly Ser Thr Ser Pro His Thr Val Ser Gly Gly
 930 935 940

Trp Ala Ala Trp Gly Pro Trp Ser Ser Cys Ser Arg Asp Cys Glu Leu
 945 950 955 960

Gly Phe Arg Val Arg Lys Arg Thr Cys Thr Asn Pro Glu Pro Arg Asn
 965 970 975

Gly Gly Leu Pro Cys Val Gly Asp Ala Ala Glu Tyr Gln Asp Cys Asn
 980 985 990

Pro Gln Ala Cys Pro Val Arg Gly Ala Trp Ser Cys Trp Thr Ser Trp
 995 1000 1005

Ser Pro Cys Ser Ala Ser Cys Gly Gly Gly His Tyr Gln Arg Thr
 1010 1015 1020

Arg Ser Cys Thr Ser Pro Ala Pro Ser Pro Gly Glu Asp Ile Cys
 1025 1030 1035

Leu Gly Leu His Thr Glu Glu Ala Leu Cys Ala Thr Gln Ala Cys
 1040 1045 1050

Pro Glu Gly Trp Ser Pro Trp Ser Glu Trp Ser Lys Cys Thr Asp
 1055 1060 1065

Asp Gly Ala Gln Ser Arg Ser Arg His Cys Glu Glu Leu Leu Pro
 1070 1075 1080

Gly Ser Ser Ala Cys Ala Gly Asn Ser Ser Gln Ser Arg Pro Cys
 1085 1090 1095

Pro Tyr Ser Glu Ile Arg Val Ile Leu Pro Ala Ser Ser Met Glu
 1100 1105 1110

Glu Ala Thr Asp Cys Ala Gly Phe Asn Leu Ile His Leu Val Ala
 1115 1120 1125

Thr Gly Ile Ser Cys Phe Leu Gly Ser Gly Leu Leu Thr Leu Ala
 1130 1135 1140

Val Tyr Leu Ser Cys Gln His Cys Gln Arg Gln Ser Gln Glu Ser
 1145 1150 1155

Thr Leu Val His Pro Ala Thr Pro Asn His Leu His Tyr Lys Gly
 1160 1165 1170

Gly Gly Thr Pro Lys Asn Glu Lys Tyr Thr Pro Met Glu Phe Lys

1175	1180	1185												
Thr	Leu	Asn	Lys	Asn	Asn	Leu	Ile	Pro	Asp	Asp	Arg	Ala	Asn	Phe
1190						1195					1200			
Tyr	Pro	Leu	Gln	Gln	Thr	Asn	Val	Tyr	Thr	Thr	Thr	Tyr	Tyr	Pro
1205						1210					1215			
Ser	Pro	Leu	Asn	Lys	His	Ser	Phe	Arg	Pro	Glu	Ala	Ser	Pro	Gly
1220						1225					1230			
Gln	Arg	Cys	Phe	Pro	Asn	Ser								
1235						1240								

<210> 27
 <211> 4567
 <212> DNA
 <213> Homo sapiens

<400> 27

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gttccagct	ggtcctggc	ctgtgtctct	tggatgcct	gtggcttcag	tccgtctcct	180
gttgcacc	acctcgccc	ttggccgcct	gatacccccag	cccaacagct	aaggtgtgga	240
tggacagtag	ggggctggct	tctctcaactg	gtcaggggtc	ttctccctgt	tctgcctccc	300
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gagcccagca	gtgagcagca	gctgtgcgcc	cttagcaagc	accccacccgt	ggcctttgaa	480
gacctgcagc	cgtgggtctc	taacttcacc	taccctggag	cccgaggatt	ctcccagctg	540
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atcgtcgccg	gccggaaagg	gttcatgtgt	ggaaccaatg	cctttcccc	catgtgcacc	780
agcagacagg	tggggaaacct	cagccggact	actgagaaga	tcaatgggt	ggcccgctgc	840
ccctatgacc	cacgcaccaa	ctccacagct	gtcatctct	cccaggggga	gctctatgca	900
gccacggtca	tcgacttctc	aggtcgggac	cctgccatct	accgcagcct	ggcagtgaaa	960
ccaccgcttc	gcactgccc	atataactcc	aagtggctta	atgagccaaa	cttcgtggca	1020
gcctatgata	ttgggtgtt	tgcataacttc	ttcctgcggg	agaacgcagt	ggagcacgac	1080
tgtggacgca	ccgtgtactc	tcgcgtggcc	cgcgtgtca	agaatgacgt	ggggggccga	1140
ttcctgctgg	aggacacatg	gaccacattc	atgaaggccc	ggctcaactg	ctcccgcccc	1200
ggcgaggtcc	cctctacta	taacgagctg	cagagtgcct	tccacttgcc	agagcaggac	1260
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ttcaacctca	gtgctatctc	ccaggcttc	aatggcccat	ttcgctacca	ggagaacccc	1380
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ggctcctgcg	acaccgacgc	cctggtg	gtcctcctg	gcagcgggag	cacccctcc	2700
cacacggta	gcggggctg	ggccgcctg	ggccgtgt	cgtcctgc	ccgggactgc	2760
gagctggct	tccgcgtcc	caagagaacg	tgcactaacc	cggagcc	caacggggc	2820
ctgccc	tgggcgt	tgccgag	caggactg	accccaaggc	ttgcccagtt	2880
cgggtgt	gttgcgt	gac	tctccatg	cagttc	tggtgggg	2940
ca	ct	cc	ct	cc	ct	3000
ctcggc	acacgg	g	gc	cc	agg	3060
cc	tg	tt	cc	cc	gg	3120
gaggag	tcc	cc	cg	cc	cc	3180
cc	at	cc	cc	cc	cc	3240
gc	at	cc	cc	cc	cc	3300
ct	cc	cc	cc	cc	cc	3360
ac	cc	cc	cc	cc	cc	3420
aa	cc	cc	cc	cc	cc	3480
gac	cc	cc	cc	cc	cc	3540
c	cc	cc	cc	cc	cc	3600
ct	cc	cc	cc	cc	cc	3660
cc	cc	cc	cc	cc	cc	3720
gg	cc	cc	cc	cc	cc	3780
g	cc	cc	cc	cc	cc	3840
tc	cc	cc	cc	cc	cc	3900
ac	cc	cc	cc	cc	cc	3938

<210> 34
 <211> 1095
 <212> PRT
 <213> Homo sapiens

<400> 34
 Met Val Leu Ala Gly Pro Leu Ala Val Ser Leu Leu Leu Pro Ser Leu
 1 5 10 15

Thr Leu Leu Val Ser His Leu Ser Ser Ser Gln Asp Val Ser Ser Glu
 20 25 30

Pro Ser Ser Glu Gln Gln Leu Cys Ala Leu Ser Lys His Pro Thr Val
 35 40 45

Ala Phe Glu Asp Leu Gln Pro Trp Val Ser Asn Phe Thr Tyr Pro Gly
 50 55 60

Ala Arg Asp Phe Ser Gln Leu Ala Leu Asp Pro Ser Gly Asn Gln Leu
 65 70 75 80

Ile Val Gly Ala Arg Asn Tyr Leu Phe Arg Leu Ser Leu Ala Asn Val
 85 90 95

Ser Leu Leu Gln Ala Thr Glu Trp Ala Ser Ser Glu Asp Thr Arg Arg
 100 105 110

Ser Cys Gln Ser Lys Gly Lys Thr Glu Glu Glu Cys Gln Asn Tyr Val
 115 120 125

Arg Val Leu Ile Val Ala Gly Arg Lys Val Phe Met Cys Gly Thr Asn
 130 135 140

Ala Phe Ser Pro Met Cys Thr Ser Arg Gln Val Gly Asn Leu Ser Arg
 145 150 155 160

Thr Thr Glu Lys Ile Asn Gly Val Ala Arg Cys Pro Tyr Asp Pro Arg
 165 170 175

His Asn Ser Thr Ala Val Ile Ser Ser Gln Gly Glu Leu Tyr Ala Ala
 180 185 190

Thr Val Ile Asp Phe Ser Gly Arg Asp Pro Ala Ile Tyr Arg Ser Leu
 195 200 205

Gly Ser Gly Pro Pro Leu Arg Thr Ala Gln Tyr Asn Ser Lys Trp Leu
 210 215 220

Asn Glu Pro Asn Phe Val Ala Ala Tyr Asp Ile Gly Leu Phe Ala Tyr
 225 230 235 240

Phe Phe Leu Arg Glu Asn Ala Val Glu His Asp Cys Gly Arg Thr Val
 245 250 255

Tyr Ser Arg Val Ala Arg Val Cys Lys Asn Asp Val Gly Gly Arg Phe
 260 265 270

Leu Leu Glu Asp Thr Trp Thr Phe Met Lys Ala Arg Leu Asn Cys
 275 280 285

Ser Arg Pro Gly Glu Val Pro Phe Tyr Tyr Asn Glu Leu Gln Ser Ala
 290 295 300

Phe His Leu Pro Glu Gln Asp Leu Ile Tyr Gly Val Phe Thr Thr Asn
 305 310 315 320

Val Asn Ser Ile Ala Ala Ser Ala Val Cys Ala Phe Asn Leu Ser Ala
 325 330 335

Ile Ser Gln Ala Phe Asn Gly Pro Phe Arg Tyr Gln Glu Asn Pro Arg
 340 345 350

Ala Ala Trp Leu Pro Ile Ala Asn Pro Ile Pro Asn Phe Gln Cys Gly
 355 360 365

Thr Leu Pro Glu Thr Gly Pro Asn Glu Asn Leu Thr Glu Arg Ser Leu
 370 375 380

Gln Asp Ala Gln Arg Leu Phe Leu Met Ser Glu Ala Val Gln Pro Val
 385 390 395 400
 Thr Pro Glu Pro Cys Val Thr Gln Asp Ser Val Arg Phe Ser His Leu
 405 410 415
 Val Val Asp Leu Val Gln Ala Lys Asp Thr Leu Tyr His Val Leu Tyr
 420 425 430
 Ile Gly Thr Glu Ser Gly Thr Ile Leu Lys Ala Leu Ser Thr Ala Ser
 435 440 445
 Arg Ser Leu His Gly Cys Tyr Leu Glu Glu Leu His Val Leu Pro Pro
 450 455 460
 Gly Arg Arg Glu Pro Leu Arg Ser Leu Arg Ile Leu His Ser Ala Arg
 465 470 475 480
 Ala Leu Phe Val Gly Leu Arg Asp Gly Val Leu Arg Val Pro Leu Glu
 485 490 495
 Arg Cys Ala Ala Tyr Arg Ser Gln Gly Ala Cys Leu Gly Ala Arg Asp
 500 505 510
 Pro Tyr Cys Gly Trp Asp Gly Lys Gln Gln Arg Cys Ser Thr Leu Glu
 515 520 525
 Asp Ser Ser Asn Met Ser Leu Trp Thr Gln Asn Ile Thr Ala Cys Pro
 530 535 540
 Val Arg Asn Val Thr Arg Asp Gly Gly Phe Gly Pro Trp Ser Pro Trp
 545 550 555 560
 Gln Pro Cys Glu His Leu Asp Gly Asp Asn Ser Gly Ser Cys Leu Cys
 565 570 575
 Arg Ala Arg Ser Cys Asp Ser Pro Arg Pro Arg Cys Gly Gly Leu Asp
 580 585 590
 Cys Leu Gly Pro Ala Ile His Ile Ala Asn Cys Ser Arg Asn Gly Gly
 595 600 605
 Arg Gly Pro Arg Gly Ala Ser Trp Ala Ala Val Gln Ala Arg Pro Val
 610 615 620
 Ala Ser Gly Phe Gln Val Arg Gln Arg Ser Cys Ser Asn Pro Ala Pro
 625 630 635 640
 Arg His Gly Gly Arg Ile Cys Val Gly Lys Ser Arg Glu Glu Arg Phe
 645 650 655
 Cys Asn Glu Asn Thr Pro Cys Pro Val Pro Ile Phe Trp Ala Ser Trp
 660 665 670
 Gly Ser Trp Ser Lys Cys Ser Ser Asn Cys Gly Gly Met Gln Ser
 675 680 685
 Arg Arg Arg Ala Cys Glu Asn Gly Asn Ser Cys Leu Gly Cys Gly Val
 690 695 700
 Glu Phe Lys Thr Cys Asn Pro Glu Gly Cys Pro Glu Val Arg Arg Asn

705	710	715	720
Thr Pro Trp Thr Pro Trp Leu Pro Val Asn Val Thr Gln Gly Gly Ala			
725	730	735	
Arg Gln Glu Gln Arg Phe Arg Phe Thr Cys Arg Ala Pro Leu Ala Asp			
740	745	750	
Pro His Gly Leu Gln Phe Gly Arg Arg Arg Thr Glu Thr Arg Thr Cys			
755	760	765	
Pro Ala Asp Gly Ser Gly Ser Cys Asp Thr Asp Ala Leu Val Glu Val			
770	775	780	
Leu Leu Arg Ser Gly Ser Thr Ser Pro His Thr Val Ser Gly Gly Trp			
785	790	795	800
Ala Ala Trp Gly Pro Trp Ser Ser Cys Ser Arg Asp Cys Glu Leu Gly			
805	810	815	
Phe Arg Val Arg Lys Arg Thr Cys Thr Asn Pro Glu Pro Arg Asn Gly			
820	825	830	
Gly Leu Pro Cys Val Gly Asp Ala Ala Glu Tyr Gln Asp Cys Asn Pro			
835	840	845	
Gln Ala Cys Pro Val Arg Gly Ala Trp Ser Cys Trp Thr Ser Trp Ser			
850	855	860	
Pro Cys Ser Ala Ser Cys Gly Gly His Tyr Gln Arg Thr Arg Ser			
865	870	875	880
Cys Thr Ser Pro Ala Pro Ser Pro Gly Glu Asp Ile Cys Leu Gly Leu			
885	890	895	
His Thr Glu Glu Ala Leu Cys Ala Thr Gln Ala Cys Pro Glu Gly Trp			
900	905	910	
Ser Pro Trp Ser Glu Trp Ser Lys Cys Thr Asp Asp Gly Ala Gln Ser			
915	920	925	
Arg Ser Arg His Cys Glu Glu Leu Leu Pro Gly Ser Ser Ala Cys Ala			
930	935	940	
Gly Asn Ser Ser Gln Ser Arg Pro Cys Pro Tyr Ser Glu Ile Arg Val			
945	950	955	960
Ile Leu Pro Ala Ser Ser Met Glu Glu Ala Thr Asp Cys Ala Gly Phe			
965	970	975	
Asn Leu Ile His Leu Val Ala Thr Gly Ile Ser Cys Phe Leu Gly Ser			
980	985	990	
Gly Leu Leu Thr Leu Ala Val Tyr Leu Ser Cys Gln His Cys Gln Arg			
995	1000	1005	
Gln Ser Gln Glu Ser Thr Leu Val His Pro Ala Thr Pro Asn His			
1010	1015	1020	
Leu His Tyr Lys Gly Gly Thr Pro Lys Asn Glu Lys Tyr Thr			
1025	1030	1035	

Pro Met Glu Phe Lys Thr Leu Asn Lys Asn Asn Leu Ile Pro Asp
 1040 1045 1050

Asp Arg Ala Asn Phe Tyr Pro Leu Gln Gln Thr Asn Val Tyr Thr
 1055 1060 1065

Thr Thr Tyr Tyr Pro Ser Pro Leu Asn Lys His Ser Phe Arg Pro
 1070 1075 1080

Glu Ala Ser Pro Gly Gln Arg Cys Phe Pro Asn Ser
 1085 1090 1095

<210> 35

<211> 1248

<212> PRT

<213> Homo sapiens

<400> 35

Arg Pro Pro His Ser Gln Thr Gly Arg Gln Pro Ile Trp Leu Ala Pro
 1 5 10 15

Ala Ala Pro Arg Arg Pro Gly Val Gly Ser Arg Gly Glu Pro Gly Thr
 20 25 30

Cys Thr Arg Leu Trp Glu Pro Ala Trp Val Arg Val Ala Leu Gly Pro
 35 40 45

Ala Arg Ala Val Val Gly Ala Ser Gly Leu Gln Arg Arg Trp Gly Pro
 50 55 60

Gly Thr Gln Ala Trp Arg Arg Arg Arg Thr Ser Glu Ala Glu Gly Arg
 65 70 75 80

Arg Asp Arg Val Ser Gly Ser Ser Trp Cys Leu Ala Cys Val Ser Trp
 85 90 95

Met Pro Cys Gly Phe Ser Pro Ser Pro Val Ala His His Leu Val Pro
 100 105 110

Gly Pro Pro Asp Thr Pro Ala Gln Gln Leu Arg Cys Gly Trp Thr Val
 115 120 125

Gly Gly Trp Leu Leu Ser Leu Val Arg Gly Leu Leu Pro Cys Leu Pro
 130 135 140

Pro Gly Ala Arg Thr Ala Glu Gly Pro Ile Met Val Leu Ala Gly Pro
 145 150 155 160

Leu Ala Val Ser Leu Leu Pro Ser Leu Thr Leu Leu Val Ser His
 165 170 175

Leu Ser Ser Ser Gln Asp Val Ser Ser Glu Pro Ser Ser Glu Gln Gln
 180 185 190

Leu Cys Ala Leu Ser Lys His Pro Thr Val Ala Phe Glu Asp Leu Gln
 195 200 205

Pro Trp Val Ser Asn Phe Thr Tyr Pro Gly Ala Arg Asp Phe Ser Gln
 210 215 220

Leu Ala Leu Asp Pro Ser Gly Asn Gln Leu Ile Val Gly Ala Arg Asn
 225 230 235 240
 Tyr Leu Phe Arg Leu Ser Leu Ala Asn Val Ser Leu Leu Gln Ala Thr
 245 250 255
 Glu Trp Ala Ser Ser Glu Asp Thr Arg Arg Ser Cys Gln Ser Lys Gly
 260 265 270
 Lys Thr Glu Glu Glu Cys Gln Asn Tyr Val Arg Val Leu Ile Val Ala
 275 280 285
 Gly Arg Lys Val Phe Met Cys Gly Thr Asn Ala Phe Ser Pro Met Cys
 290 295 300
 Thr Ser Arg Gln Val Gly Asn Leu Ser Arg Thr Thr Glu Lys Ile Asn
 305 310 315 320
 Gly Val Ala Arg Cys Pro Tyr Asp Pro Arg His Asn Ser Thr Ala Val
 325 330 335
 Ile Ser Ser Gln Gly Glu Leu Tyr Ala Ala Thr Val Ile Asp Phe Ser
 340 345 350
 Gly Arg Asp Pro Ala Ile Tyr Arg Ser Leu Gly Ser Gly Pro Pro Leu
 355 360 365
 Arg Thr Ala Gln Tyr Asn Ser Lys Trp Leu Asn Glu Pro Asn Phe Val
 370 375 380
 Ala Ala Tyr Asp Ile Gly Leu Phe Ala Tyr Phe Phe Leu Arg Glu Asn
 385 390 395 400
 Ala Val Glu His Asp Cys Gly Arg Thr Val Tyr Ser Arg Val Ala Arg
 405 410 415
 Val Cys Lys Asn Asp Val Gly Gly Arg Phe Leu Leu Glu Asp Thr Trp
 420 425 430
 Thr Thr Phe Met Lys Ala Arg Leu Asn Cys Ser Arg Pro Gly Glu Val
 435 440 445
 Pro Phe Tyr Tyr Asn Glu Leu Gln Ser Ala Phe His Leu Pro Glu Gln
 450 455 460
 Asp Leu Ile Tyr Gly Val Phe Thr Thr Asn Val Asn Ser Ile Ala Ala
 465 470 475 480
 Ser Ala Val Cys Ala Phe Asn Leu Ser Ala Ile Ser Gln Ala Phe Asn
 485 490 495
 Gly Pro Phe Arg Tyr Gln Glu Asn Pro Arg Ala Ala Trp Leu Pro Ile
 500 505 510
 Ala Asn Pro Ile Pro Asn Phe Gln Cys Gly Thr Leu Pro Glu Thr Gly
 515 520 525
 Pro Asn Glu Asn Leu Thr Glu Arg Ser Leu Gln Asp Ala Gln Arg Leu
 530 535 540

Phe Leu Met Ser Glu Ala Val Gln Pro Val Thr Pro Glu Pro Cys Val
 545 550 555 560
 Thr Gln Asp Ser Val Arg Phe Ser His Leu Val Val Asp Leu Val Gln
 565 570 575
 Ala Lys Asp Thr Leu Tyr His Val Leu Tyr Ile Gly Thr Glu Ser Gly
 580 585 590
 Thr Ile Leu Lys Ala Leu Ser Thr Ala Ser Arg Ser Leu His Gly Cys
 595 600 605
 Tyr Leu Glu Glu Leu His Val Leu Pro Pro Gly Arg Arg Glu Pro Leu
 610 615 620
 Arg Ser Leu Arg Ile Leu His Ser Ala Arg Ala Leu Phe Val Gly Leu
 625 630 635 640
 Arg Asp Gly Val Leu Arg Val Pro Leu Glu Arg Cys Ala Ala Tyr Arg
 645 650 655
 Ser Gln Gly Ala Cys Leu Gly Ala Arg Asp Pro Tyr Cys Gly Trp Asp
 660 665 670
 Gly Lys Gln Gln Arg Cys Ser Thr Leu Glu Asp Ser Ser Asn Met Ser
 675 680 685
 Leu Trp Thr Gln Asn Ile Thr Ala Cys Pro Val Arg Asn Val Thr Arg
 690 695 700
 Asp Gly Gly Phe Gly Pro Trp Ser Pro Trp Gln Pro Cys Glu His Leu
 705 710 715 720
 Asp Gly Asp Asn Ser Gly Ser Cys Leu Cys Arg Ala Arg Ser Cys Asp
 725 730 735
 Ser Pro Arg Pro Arg Cys Gly Leu Asp Cys Leu Gly Pro Ala Ile
 740 745 750
 His Ile Ala Asn Cys Ser Arg Asn Gly Ala Val Asp Pro Val Val Ile
 755 760 765
 Val Gly Arg Cys Ala Ala Thr Ser Cys Gly Ile Gly Phe Gln Val Arg
 770 775 780
 Gln Arg Ser Cys Ser Asn Pro Ala Pro Arg His Gly Gly Arg Ile Cys
 785 790 795 800
 Val Gly Lys Ser Arg Glu Glu Arg Phe Cys Asn Glu Asn Thr Pro Cys
 805 810 815
 Pro Val Pro Ile Phe Trp Ala Ser Trp Gly Ser Trp Ser Lys Cys Ser
 820 825 830
 Ser Asn Cys Gly Gly Met Gln Ser Arg Arg Arg Ala Cys Glu Asn
 835 840 845
 Gly Asn Ser Cys Leu Gly Cys Gly Val Glu Phe Lys Thr Cys Asn Pro
 850 855 860
 Glu Gly Cys Pro Glu Val Arg Arg Asn Thr Pro Trp Thr Pro Trp Leu

865	870	875	880
Pro Val Asn Val Thr Gln Gly Gly Ala Arg Gln Glu Gln Arg Phe Arg			
885	890	895	
Phe Thr Cys Arg Ala Pro Leu Ala Asp Pro His Gly Leu Gln Phe Gly			
900	905	910	
Arg Arg Arg Thr Glu Thr Arg Thr Cys Pro Ala Asp Gly Ser Gly Ser			
915	920	925	
Cys Asp Thr Asp Ala Leu Val Glu Val Leu Leu Arg Ser Gly Ser Thr			
930	935	940	
Ser Pro His Thr Val Ser Gly Gly Trp Ala Ala Trp Gly Pro Trp Ser			
945	950	955	960
Ser Cys Ser Arg Asp Cys Glu Leu Gly Phe Arg Val Arg Lys Arg Thr			
965	970	975	
Cys Thr Asn Pro Glu Pro Arg Asn Gly Gly Leu Pro Cys Val Gly Asp			
980	985	990	
Ala Ala Glu Tyr Gln Asp Cys Asn Pro Gln Ala Cys Pro Val Arg Gly			
995	1000	1005	
Ala Trp Ser Cys Trp Thr Ser Trp Ser Pro Cys Ser Ala Ser Cys			
1010	1015	1020	
Gly Gly Gly His Tyr Gln Arg Thr Arg Ser Cys Thr Ser Pro Ala			
1025	1030	1035	
Pro Ser Pro Gly Glu Asp Ile Cys Leu Gly Leu His Thr Glu Glu			
1040	1045	1050	
Ala Leu Cys Ala Thr Gln Ala Cys Pro Glu Gly Trp Ser Pro Trp			
1055	1060	1065	
Ser Glu Trp Ser Lys Cys Thr Asp Asp Gly Ala Gln Ser Arg Ser			
1070	1075	1080	
Arg His Cys Glu Glu Leu Leu Pro Gly Ser Ser Ala Cys Ala Gly			
1085	1090	1095	
Asn Ser Ser Gln Ser Arg Pro Cys Pro Tyr Ser Glu Ile Arg Val			
1100	1105	1110	
Ile Leu Pro Ala Ser Ser Met Glu Glu Ala Thr Asp Cys Ala Gly			
1115	1120	1125	
Phe Asn Leu Ile His Leu Val Ala Thr Gly Ile Ser Cys Phe Leu			
1130	1135	1140	
Gly Ser Gly Leu Leu Thr Leu Ala Val Tyr Leu Ser Cys Gln His			
1145	1150	1155	
Cys Gln Arg Gln Ser Gln Glu Ser Thr Leu Val His Pro Ala Thr			
1160	1165	1170	
Pro Asn His Leu His Tyr Lys Gly Gly Gly Thr Pro Lys Asn Glu			
1175	1180	1185	

Lys Tyr Thr Pro Met Glu Phe Lys Thr Leu Asn Lys Asn Asn Leu
 1190 1195 1200

Ile Pro Asp Asp Arg Ala Asn Phe Tyr Pro Leu Gln Gln Thr Asn
 1205 1210 1215

Val Tyr Thr Thr Tyr Tyr Pro Ser Pro Leu Asn Lys His Ser
 1220 1225 1230

Phe Arg Pro Glu Ala Ser Pro Gly Gln Arg Cys Phe Pro Asn Ser
 1235 1240 1245

<210> 36

<211> 1150

<212> PRT

<213> Homo sapiens

<400> 36

Ala Ala Ala Pro Phe Pro Asp Arg Pro Pro Ala His Leu Val Ser Ser
 1 5 10 15

Arg Arg Ser Ala Pro Pro Gly Ser Arg Glu Pro Arg Gly Thr Gly His
 20 25 30

Leu His Pro Pro Leu Gly Gly Leu Leu Pro Cys Leu Pro Pro Gly Ala
 35 40 45

Arg Thr Ala Glu Gly Pro Ile Met Val Leu Ala Gly Pro Leu Ala Val
 50 55 60

Ser Leu Leu Leu Pro Ser Leu Thr Leu Leu Val Ser His Leu Ser Ser
 65 70 75 80

Ser Gln Asp Val Ser Ser Glu Pro Ser Ser Glu Gln Gln Leu Cys Ala
 85 90 95

Leu Ser Lys His Pro Thr Val Ala Phe Glu Asp Leu Gln Pro Trp Val
 100 105 110

Ser Asn Phe Thr Tyr Pro Gly Ala Arg Asp Phe Ser Gln Leu Ala Leu
 115 120 125

Asp Pro Ser Gly Asn Gln Leu Ile Val Gly Ala Arg Asn Tyr Leu Phe
 130 135 140

Arg Leu Ser Leu Ala Asn Val Ser Leu Leu Gln Ala Thr Glu Trp Ala
 145 150 155 160

Ser Ser Glu Asp Thr Arg Arg Ser Cys Gln Ser Lys Gly Lys Thr Glu
 165 170 175

Glu Glu Cys Gln Asn Tyr Val Arg Val Leu Ile Val Ala Gly Arg Lys
 180 185 190

Val Phe Met Cys Gly Thr Asn Ala Phe Ser Pro Met Cys Thr Ser Arg
 195 200 205

Gln Val Gly Asn Leu Ser Arg Thr Thr Glu Lys Ile Asn Gly Val Ala

210	215	220	
Arg Cys Pro Tyr Asp Pro Arg His Asn Ser Thr Ala Val Ile Ser Ser			
225	230	235	240
Gln Gly Glu Leu Tyr Ala Ala Thr Val Ile Asp Phe Ser Gly Arg Asp			
245	250	255	
Pro Ala Ile Tyr Arg Ser Leu Gly Ser Gly Pro Pro Leu Arg Thr Ala			
260	265	270	
Gln Tyr Asn Ser Lys Trp Leu Asn Glu Pro Asn Phe Val Ala Ala Tyr			
275	280	285	
Asp Ile Gly Leu Phe Ala Tyr Phe Phe Leu Arg Glu Asn Ala Val Glu			
290	295	300	
His Asp Cys Gly Arg Thr Val Tyr Ser Arg Val Ala Arg Val Cys Lys			
305	310	315	320
Asn Asp Val Gly Gly Arg Phe Leu Leu Glu Asp Thr Trp Thr Thr Phe			
325	330	335	
Met Lys Ala Arg Leu Asn Cys Ser Arg Pro Gly Glu Val Pro Phe Tyr			
340	345	350	
Tyr Asn Glu Leu Gln Ser Ala Phe His Leu Pro Glu Gln Asp Leu Ile			
355	360	365	
Tyr Gly Val Phe Thr Thr Asn Val Asn Ser Ile Ala Ala Ser Ala Val			
370	375	380	
Cys Ala Phe Asn Leu Ser Ala Ile Ser Gln Ala Phe Asn Gly Pro Phe			
385	390	395	400
Arg Tyr Gln Glu Asn Pro Arg Ala Ala Trp Leu Pro Ile Ala Asn Pro			
405	410	415	
Ile Pro Asn Phe Gln Cys Gly Thr Leu Pro Glu Thr Gly Pro Asn Glu			
420	425	430	
Asn Leu Thr Glu Arg Ser Leu Gln Asp Ala Gln Arg Leu Phe Leu Met			
435	440	445	
Ser Glu Ala Val Gln Pro Val Thr Pro Glu Pro Cys Val Thr Gln Asp			
450	455	460	
Ser Val Arg Phe Ser His Leu Val Val Asp Leu Val Gln Ala Lys Asp			
465	470	475	480
Thr Leu Tyr His Val Leu Tyr Ile Gly Thr Glu Ser Gly Thr Ile Leu			
485	490	495	
Lys Ala Leu Ser Thr Ala Ser Arg Ser Leu His Gly Cys Tyr Leu Glu			
500	505	510	
Glu Leu His Val Leu Pro Pro Gly Arg Arg Glu Pro Leu Arg Ser Leu			
515	520	525	
Arg Ile Leu His Ser Ala Arg Ala Leu Phe Val Gly Leu Arg Asp Gly			
530	535	540	

Val Leu Arg Val Pro Leu Glu Arg Cys Ala Ala Tyr Arg Ser Gln Gly
 545 550 555 560
 Ala Cys Leu Gly Ala Arg Asp Pro Tyr Cys Gly Trp Asp Gly Lys Gln
 565 570 575
 Gln Arg Cys Ser Thr Leu Glu Asp Ser Ser Asn Met Ser Leu Trp Thr
 580 585 590
 Gln Asn Ile Thr Ala Cys Pro Val Arg Asn Val Thr Arg Asp Gly Gly
 595 600 605
 Phe Gly Pro Trp Ser Pro Trp Gln Pro Cys Glu His Leu Asp Gly Asp
 610 615 620
 Asn Ser Gly Ser Cys Leu Cys Arg Ala Arg Ser Cys Asp Ser Pro Arg
 625 630 635 640
 Pro Arg Cys Gly Gly Leu Asp Cys Leu Gly Pro Ala Ile His Ile Ala
 645 650 655
 Asn Cys Ser Arg Asn Gly Ala Val Asp Pro Val Val His Arg Gly Pro
 660 665 670
 Leu Cys Ser His Val Leu Trp His Ala Ala Ser Arg Ser Ala Ser Glu
 675 680 685
 Val Ala Ala Thr Leu Leu Pro Ala Thr Gly Ala Ala Ser Ala Trp Ala
 690 695 700
 Arg Ala Trp Glu Glu Arg Phe Cys Asn Glu Asn Thr Pro Cys Pro Val
 705 710 715 720
 Pro Ile Phe Trp Ala Ser Trp Gly Ser Trp Ser Lys Cys Ser Ser Asn
 725 730 735
 Cys Gly Gly Gly Met Gln Ser Arg Arg Arg Ala Cys Glu Asn Gly Asn
 740 745 750
 Ser Cys Leu Gly Cys Gly Val Glu Phe Lys Thr Cys Asn Pro Glu Gly
 755 760 765
 Cys Pro Glu Val Arg Arg Asn Thr Pro Trp Thr Pro Trp Leu Pro Val
 770 775 780
 Asn Val Thr Gln Gly Gly Ala Arg Gln Glu Gln Arg Phe Arg Phe Thr
 785 790 795 800
 Cys Arg Ala Pro Leu Ala Asp Pro His Gly Leu Gln Phe Gly Arg Arg
 805 810 815
 Arg Thr Glu Thr Arg Thr Cys Pro Ala Asp Gly Ser Gly Ser Cys Asp
 820 825 830
 Thr Asp Ala Leu Val Glu Val Leu Leu Arg Ser Gly Ser Thr Ser Pro
 835 840 845
 His Thr Val Ser Gly Gly Trp Ala Ala Trp Gly Pro Trp Ser Ser Cys
 850 855 860

Ser Arg Asp Cys Glu Leu Gly Phe Arg Val Arg Lys Arg Thr Cys Thr
 865 870 875 880
 Asn Pro Glu Pro Arg Asn Gly Gly Leu Pro Cys Val Gly Asp Ala Ala
 885 890 895
 Glu Tyr Gln Asp Cys Asn Pro Gln Ala Cys Pro Val Arg Gly Ala Trp
 900 905 910
 Ser Cys Trp Thr Ser Trp Ser Pro Cys Ser Ala Ser Cys Gly Gly Gly
 915 920 925
 His Tyr Gln Arg Thr Arg Ser Cys Thr Ser Pro Ala Pro Ser Pro Gly
 930 935 940
 Glu Asp Ile Cys Leu Gly Leu His Thr Glu Glu Ala Leu Cys Ala Thr
 945 950 955 960
 Gln Ala Cys Pro Glu Gly Trp Ser Pro Trp Ser Glu Trp Ser Lys Cys
 965 970 975
 Thr Asp Asp Gly Ala Gln Ser Arg Ser Arg His Cys Glu Glu Leu Leu
 980 985 990
 Pro Gly Ser Ser Ala Cys Ala Gly Asn Ser Ser Gln Ser Arg Pro Cys
 995 1000 1005
 Pro Tyr Ser Glu Ile Arg Val Ile Leu Pro Ala Ser Ser Met Glu
 1010 1015 1020
 Glu Ala Thr Asp Cys Ala Gly Phe Asn Leu Ile His Leu Val Ala
 1025 1030 1035
 Thr Gly Ile Ser Cys Phe Leu Gly Ser Gly Leu Leu Thr Leu Ala
 1040 1045 1050
 Val Tyr Leu Ser Cys Gln His Cys Gln Arg Gln Ser Gln Glu Ser
 1055 1060 1065
 Thr Leu Val His Pro Ala Thr Pro Asn His Leu His Tyr Lys Gly
 1070 1075 1080
 Gly Gly Thr Pro Lys Asn Glu Lys Tyr Thr Pro Met Glu Phe Lys
 1085 1090 1095
 Thr Leu Asn Lys Asn Asn Leu Ile Pro Asp Asp Arg Ala Asn Phe
 1100 1105 1110
 Tyr Pro Leu Gln Gln Thr Asn Val Tyr Thr Thr Thr Tyr Tyr Pro
 1115 1120 1125
 Ser Pro Leu Asn Lys His Ser Phe Arg Pro Glu Ala Ser Pro Gly
 1130 1135 1140
 Gln Arg Cys Phe Pro Asn Ser
 1145 1150

<210> 37
 <211> 1211
 <212> PRT

<213> Homo sapiens

<400> 37

Ala	Ala	Ala	Pro	Phe	Pro	Asp	Arg	Pro	Pro	Ala	His	Leu	Val	Ser	Ser
1				5				10						15	
Arg	Arg	Ser	Ala	Pro	Pro	Gly	Ser	Arg	Glu	Pro	Arg	Gly	Thr	Gly	His
		20					25						30		
Leu	His	Pro	Pro	Leu	Gly	Val	Ser	Gly	Ser	Ser	Trp	Cys	Leu	Ala	Cys
	35					40						45			
Val	Ser	Trp	Met	Pro	Cys	Gly	Phe	Ser	Pro	Ser	Pro	Val	Ala	His	His
	50						55					60			
Leu	Val	Pro	Gly	Pro	Pro	Asp	Thr	Pro	Ala	Gln	Gln	Leu	Arg	Cys	Gly
	65					70				75				80	
Trp	Thr	Val	Gly	Gly	Trp	Leu	Leu	Ser	Leu	Val	Arg	Gly	Leu	Leu	Pro
					85			90					95		
Cys	Leu	Pro	Pro	Gly	Ala	Arg	Thr	Ala	Glu	Gly	Pro	Ile	Met	Val	Leu
	100						105						110		
Ala	Gly	Pro	Leu	Ala	Val	Ser	Leu	Leu	Leu	Pro	Ser	Leu	Thr	Leu	Leu
	115						120						125		
Val	Ser	His	Leu	Ser	Ser	Ser	Gln	Asp	Val	Ser	Ser	Glu	Pro	Ser	Ser
	130						135					140			
Glu	Gln	Gln	Leu	Cys	Ala	Leu	Ser	Lys	His	Pro	Thr	Val	Ala	Phe	Glu
	145					150				155				160	
Asp	Leu	Gln	Pro	Trp	Val	Ser	Asn	Phe	Thr	Tyr	Pro	Gly	Ala	Arg	Asp
				165				170					175		
Phe	Ser	Gln	Leu	Ala	Leu	Asp	Pro	Ser	Gly	Asn	Gln	Leu	Ile	Val	Gly
				180				185					190		
Ala	Arg	Asn	Tyr	Leu	Phe	Arg	Leu	Ser	Leu	Ala	Asn	Val	Ser	Leu	Leu
	195					200						205			
Gln	Ala	Thr	Glu	Trp	Ala	Ser	Ser	Glu	Asp	Thr	Arg	Arg	Ser	Cys	Gln
	210					215					220				
Ser	Lys	Gly	Lys	Thr	Glu	Glu	Glu	Cys	Gln	Asn	Tyr	Val	Arg	Val	Leu
	225				230				235				240		
Ile	Val	Ala	Gly	Arg	Lys	Val	Phe	Met	Cys	Gly	Thr	Asn	Ala	Phe	Ser
				245				250					255		
Pro	Met	Cys	Thr	Ser	Arg	Gln	Val	Gly	Asn	Leu	Ser	Arg	Thr	Thr	Glu
				260			265					270			
Lys	Ile	Asn	Gly	Val	Ala	Arg	Cys	Pro	Tyr	Asp	Pro	Arg	His	Asn	Ser
				275			280					285			
Thr	Ala	Val	Ile	Ser	Ser	Gln	Gly	Glu	Leu	Tyr	Ala	Ala	Thr	Val	Ile
	290					295				300					
Asp	Phe	Ser	Gly	Arg	Asp	Pro	Ala	Ile	Tyr	Arg	Ser	Leu	Gly	Ser	Gly

305	310	315	320
Pro Pro Leu Arg Thr Ala Gln Tyr Asn Ser Lys Trp Leu Asn Glu Pro			
325	330	335	
Asn Phe Val Ala Ala Tyr Asp Ile Gly Leu Phe Ala Tyr Phe Phe Leu			
340	345	350	
Arg Glu Asn Ala Val Glu His Asp Cys Gly Arg Thr Val Tyr Ser Arg			
355	360	365	
Val Ala Arg Val Cys Lys Asn Asp Val Gly Gly Arg Phe Leu Leu Glu			
370	375	380	
Asp Thr Trp Thr Thr Phe Met Lys Ala Arg Leu Asn Cys Ser Arg Pro			
385	390	395	400
Gly Glu Val Pro Phe Tyr Tyr Asn Glu Leu Gln Ser Ala Phe His Leu			
405	410	415	
Pro Glu Gln Asp Leu Ile Tyr Gly Val Phe Thr Thr Asn Val Asn Ser			
420	425	430	
Ile Ala Ala Ser Ala Val Cys Ala Phe Asn Leu Ser Ala Ile Ser Gln			
435	440	445	
Ala Phe Asn Gly Pro Phe Arg Tyr Gln Glu Asn Pro Arg Ala Ala Trp			
450	455	460	
Leu Pro Ile Ala Asn Pro Ile Pro Asn Phe Gln Cys Gly Thr Leu Pro			
465	470	475	480
Glu Thr Gly Pro Asn Glu Asn Leu Thr Glu Arg Ser Leu Gln Asp Ala			
485	490	495	
Gln Arg Leu Phe Leu Met Ser Glu Ala Val Gln Pro Val Thr Pro Glu			
500	505	510	
Pro Cys Val Thr Gln Asp Ser Val Arg Phe Ser His Leu Val Val Asp			
515	520	525	
Leu Val Gln Ala Lys Asp Thr Leu Tyr His Val Leu Tyr Ile Gly Thr			
530	535	540	
Glu Ser Gly Thr Ile Leu Lys Ala Leu Ser Thr Ala Ser Arg Ser Leu			
545	550	555	560
His Gly Cys Tyr Leu Glu Glu Leu His Val Leu Pro Pro Gly Arg Arg			
565	570	575	
Glu Pro Leu Arg Ser Leu Arg Ile Leu His Ser Ala Arg Ala Leu Phe			
580	585	590	
Val Gly Leu Arg Asp Gly Val Leu Arg Val Pro Leu Glu Arg Cys Ala			
595	600	605	
Ala Tyr Arg Ser Gln Gly Ala Cys Leu Gly Ala Arg Asp Pro Tyr Cys			
610	615	620	
Gly Trp Asp Gly Lys Gln Gln Arg Cys Ser Thr Leu Glu Asp Ser Ser			
625	630	635	640

Asn Met Ser Leu Trp Thr Gln Asn Ile Thr Ala Cys Pro Val Arg Asn
 645 650 655
 Val Thr Arg Asp Gly Gly Phe Gly Pro Trp Ser Pro Trp Gln Pro Cys
 660 665 670
 Glu His Leu Asp Gly Asp Asn Ser Gly Ser Cys Leu Cys Arg Ala Arg
 675 680 685
 Ser Cys Asp Ser Pro Arg Pro Arg Cys Gly Gly Leu Asp Cys Leu Gly
 690 695 700
 Pro Ala Ile His Ile Ala Asn Cys Ser Arg Asn Gly Ala Val Asp Pro
 705 710 715 720
 Val Val Ile Val Gly Arg Cys Ala Ala Thr Ser Cys Gly Ile Gly Phe
 725 730 735
 Gln Val Arg Gln Arg Ser Cys Ser Asn Pro Ala Pro Arg His Gly Gly
 740 745 750
 Arg Ile Cys Val Gly Lys Ser Arg Glu Glu Arg Phe Cys Asn Glu Asn
 755 760 765
 Thr Pro Cys Pro Val Pro Ile Phe Trp Ala Ser Trp Gly Ser Trp Ser
 770 775 780
 Lys Cys Ser Ser Asn Cys Gly Gly Met Gln Ser Arg Arg Arg Ala
 785 790 795 800
 Cys Glu Asn Gly Asn Ser Cys Leu Gly Cys Gly Val Glu Phe Lys Thr
 805 810 815
 Cys Asn Pro Glu Gly Cys Pro Glu Val Arg Arg Asn Thr Pro Trp Thr
 820 825 830
 Pro Trp Leu Pro Val Asn Val Thr Gln Gly Gly Ala Arg Gln Glu Gln
 835 840 845
 Arg Phe Arg Phe Thr Cys Arg Ala Pro Leu Ala Asp Pro His Gly Leu
 850 855 860
 Gln Phe Gly Arg Arg Arg Thr Glu Thr Arg Thr Cys Pro Ala Asp Gly
 865 870 875 880
 Ser Gly Ser Cys Asp Thr Asp Ala Leu Val Glu Val Leu Leu Arg Ser
 885 890 895
 Gly Ser Thr Ser Pro His Thr Val Ser Gly Gly Trp Ala Ala Trp Gly
 900 905 910
 Pro Trp Ser Ser Cys Ser Arg Asp Cys Glu Leu Gly Phe Arg Val Arg
 915 920 925
 Lys Arg Thr Cys Thr Asn Pro Glu Pro Arg Asn Gly Gly Leu Pro Cys
 930 935 940
 Val Gly Asp Ala Ala Glu Tyr Gln Asp Cys Asn Pro Gln Ala Cys Pro
 945 950 955 960

Val Arg Gly Ala Trp Ser Cys Trp Thr Ser Trp Ser Pro Cys Ser Ala
 965 970 975
 Ser Cys Gly Gly His Tyr Gln Arg Thr Arg Ser Cys Thr Ser Pro
 980 985 990
 Ala Pro Ser Pro Gly Glu Asp Ile Cys Leu Gly Leu His Thr Glu Glu
 995 1000 1005
 Ala Leu Cys Ala Thr Gln Ala Cys Pro Glu Gly Trp Ser Pro Trp
 1010 1015 1020
 Ser Glu Trp Ser Lys Cys Thr Asp Asp Gly Ala Gln Ser Arg Ser
 1025 1030 1035
 Arg His Cys Glu Glu Leu Leu Pro Gly Ser Ser Ala Cys Ala Gly
 1040 1045 1050
 Asn Ser Ser Gln Ser Arg Pro Cys Pro Tyr Ser Glu Ile Arg Val
 1055 1060 1065
 Ile Leu Pro Ala Ser Ser Met Glu Glu Ala Thr Asp Cys Ala Gly
 1070 1075 1080
 Phe Asn Leu Ile His Leu Val Ala Thr Gly Ile Ser Cys Phe Leu
 1085 1090 1095
 Gly Ser Gly Leu Leu Thr Leu Ala Val Tyr Leu Ser Cys Gln His
 1100 1105 1110
 Cys Gln Arg Gln Ser Gln Glu Ser Thr Leu Val His Pro Ala Thr
 1115 1120 1125
 Pro Asn His Leu His Tyr Lys Gly Gly Gly Thr Pro Lys Asn Glu
 1130 1135 1140
 Lys Tyr Thr Pro Met Glu Phe Lys Thr Leu Asn Lys Asn Asn Leu
 1145 1150 1155
 Ile Pro Asp Asp Arg Ala Asn Phe Tyr Pro Leu Gln Gln Thr Asn
 1160 1165 1170
 Ala Ser Ala Gly Tyr Pro Pro Leu Pro Gly Ser Leu Tyr Ser Thr
 1175 1180 1185
 Gln Gly Ile Pro Leu Val Arg Gly Ser Glu Tyr Trp Glu Leu Glu
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 Ala Asp Leu Cys Leu Glu Val Leu
 1205 1210

<210> 38
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 <212> PRT
 <213> Homo sapiens

<400> 38
 Ala Ala Ala Pro Phe Pro Asp Arg Pro Pro Ala His Leu Val Ser Ser
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Arg Arg Ser Ala Pro Pro Gly Ser Arg Glu Pro Arg Gly Thr Gly His
 20 25 30

Leu His Pro Pro Leu Gly Val Ser Gly Ser Ser Trp Cys Leu Ala Cys
 35 40 45

Val Ser Trp Met Pro Cys Gly Phe Ser Pro Ser Pro Val Ala His His
 50 55 60

Leu Val Pro Gly Pro Pro Asp Thr Pro Ala Gln Gln Leu Arg Cys Gly
 65 70 75 80

Trp Thr Val Gly Gly Trp Leu Leu Ser Leu Val Arg Gly Leu Leu Pro
 85 90 95

Cys Leu Pro Pro Gly Ala Arg Thr Ala Glu Gly Pro Ile Met Val Leu
 100 105 110

Ala Gly Pro Leu Ala Val Ser Leu Leu Leu Pro Ser Leu Thr Leu Leu
 115 120 125

Val Ser His Leu Ser Ser Ser Gln Asp Val Ser Ser Glu Pro Ser Ser
 130 135 140

Glu Gln Gln Leu Cys Ala Leu Ser Lys His Pro Thr Val Ala Phe Glu
 145 150 155 160

Asp Leu Gln Pro Trp Val Ser Asn Phe Thr Tyr Pro Gly Ala Arg Asp
 165 170 175

Phe Ser Gln Leu Ala Leu Asp Pro Ser Gly Asn Gln Leu Ile Val Gly
 180 185 190

Ala Arg Asn Tyr Leu Phe Arg Leu Ser Leu Ala Asn Val Ser Leu Leu
 195 200 205

Gln Ala Thr Glu Trp Ala Ser Ser Glu Asp Thr Arg Arg Ser Cys Gln
 210 215 220

Ser Lys Gly Lys Thr Glu Glu Glu Cys Gln Asn Tyr Val Arg Val Leu
 225 230 235 240

Ile Val Ala Gly Arg Lys Val Phe Met Cys Gly Thr Asn Ala Phe Ser
 245 250 255

Pro Met Cys Thr Ser Arg Gln Val Gly Asn Leu Ser Arg Thr Thr Glu
 260 265 270

Lys Ile Asn Gly Val Ala Arg Cys Pro Tyr Asp Pro Arg His Asn Ser
 275 280 285

Thr Ala Val Ile Ser Ser Gln Gly Glu Leu Tyr Ala Ala Thr Val Ile
 290 295 300

Asp Phe Ser Gly Arg Asp Pro Ala Ile Tyr Arg Ser Leu Gly Ser Gly
 305 310 315 320

Pro Pro Leu Arg Thr Ala Gln Tyr Asn Ser Lys Trp Leu Asn Glu Pro
 325 330 335

Asn Phe Val Ala Ala Tyr Asp Ile Gly Leu Phe Ala Tyr Phe Phe Leu

340	345	350
Arg Glu Asn Ala Val Glu His Asp Cys Gly Arg Thr Val Tyr Ser Arg		
355	360	365
Val Ala Arg Val Cys Lys Asn Asp Val Gly Gly Arg Phe Leu Leu Glu		
370	375	380
Asp Thr Trp Thr Thr Phe Met Lys Ala Arg Leu Asn Cys Ser Arg Pro		
385	390	395
Gly Glu Val Pro Phe Tyr Tyr Asn Glu Leu Gln Ser Ala Phe His Leu		
405	410	415
Pro Glu Gln Asp Leu Ile Tyr Gly Val Phe Thr Thr Asn Val Asn Ser		
420	425	430
Ile Ala Ala Ser Ala Val Cys Ala Phe Asn Leu Ser Ala Ile Ser Gln		
435	440	445
Ala Phe Asn Gly Pro Phe Arg Tyr Gln Glu Asn Pro Arg Ala Ala Trp		
450	455	460
Leu Pro Ile Ala Asn Pro Ile Pro Asn Phe Gln Cys Gly Thr Leu Pro		
465	470	475
Glu Thr Gly Pro Asn Glu Asn Leu Thr Glu Arg Ser Leu Gln Asp Ala		
485	490	495
Gln Arg Leu Phe Leu Met Ser Glu Ala Val Gln Pro Val Thr Pro Glu		
500	505	510
Pro Cys Val Thr Gln Asp Ser Val Arg Phe Ser His Leu Val Val Asp		
515	520	525
Leu Val Gln Ala Lys Asp Thr Leu Tyr His Val Leu Tyr Ile Gly Thr		
530	535	540
Glu Ser Gly Thr Ile Leu Lys Ala Leu Ser Thr Ala Ser Arg Ser Leu		
545	550	555
His Gly Cys Tyr Leu Glu Glu Leu His Val Leu Pro Pro Gly Arg Arg		
565	570	575
Glu Pro Leu Arg Ser Leu Arg Ile Leu His Ser Ala Arg Ala Leu Phe		
580	585	590
Val Gly Leu Arg Asp Gly Val Leu Arg Val Pro Leu Glu Arg Cys Ala		
595	600	605
Ala Tyr Arg Ser Gln Gly Ala Cys Leu Gly Ala Arg Asp Pro Tyr Cys		
610	615	620
Gly Trp Asp Gly Lys Gln Gln Arg Cys Ser Thr Leu Glu Asp Ser Ser		
625	630	635
Asn Met Ser Leu Trp Thr Gln Asn Ile Thr Ala Cys Pro Val Arg Asn		
645	650	655
Val Thr Arg Asp Gly Gly Phe Gly Pro Trp Ser Pro Trp Gln Pro Cys		
660	665	670

Glu His Leu Asp Gly Asp Asn Ser Gly Ser Cys Leu Cys Arg Ala Arg
 675 680 685
 Ser Cys Asp Ser Pro Arg Pro Arg Cys Gly Gly Leu Asp Cys Leu Gly
 690 695 700
 Pro Ala Ile His Ile Ala Asn Cys Ser Arg Asn Gly Ala Val Asp Pro
 705 710 715 720
 Val Val Ile Val Gly Arg Cys Ala Ala Thr Ser Cys Gly Ile Gly Phe
 725 730 735
 Gln Val Arg Gln Arg Ser Cys Ser Asn Pro Ala Pro Arg His Gly Gly
 740 745 750
 Arg Ile Cys Val Gly Lys Ser Arg Glu Glu Arg Phe Cys Asn Glu Asn
 755 760 765
 Thr Pro Cys Pro Val Pro Ile Phe Trp Ala Ser Trp Gly Ser Trp Ser
 770 775 780
 Lys Cys Ser Ser Asn Cys Gly Gly Met Gln Ser Arg Arg Arg Ala
 785 790 795 800
 Cys Glu Asn Gly Asn Ser Cys Leu Gly Cys Gly Val Glu Phe Lys Thr
 805 810 815
 Cys Asn Pro Glu Gly Cys Pro Glu Val Arg Arg Asn Thr Pro Trp Thr
 820 825 830
 Pro Trp Leu Pro Val Asn Val Thr Gln Gly Gly Ala Arg Gln Glu Gln
 835 840 845
 Arg Phe Arg Phe Thr Cys Arg Ala Pro Leu Ala Asp Pro His Gly Leu
 850 855 860
 Gln Phe Gly Arg Arg Arg Thr Glu Thr Arg Thr Cys Pro Ala Asp Gly
 865 870 875 880
 Ser Gly Ser Cys Asp Thr Asp Ala Leu Val Glu Val Leu Leu Arg Ser
 885 890 895
 Gly Ser Thr Ser Pro His Thr Val Ser Gly Gly Trp Ala Ala Trp Gly
 900 905 910
 Pro Trp Ser Ser Cys Ser Arg Asp Cys Glu Leu Gly Phe Arg Val Arg
 915 920 925
 Lys Arg Thr Cys Thr Asn Pro Glu Pro Arg Asn Gly Gly Leu Pro Cys
 930 935 940
 Val Gly Asp Ala Ala Glu Tyr Gln Asp Cys Asn Pro Gln Ala Cys Pro
 945 950 955 960
 Val Arg Gly Ala Trp Ser Cys Trp Thr Ser Trp Ser Pro Cys Ser Ala
 965 970 975
 Ser Cys Gly Gly Gly His Tyr Gln Arg Thr Arg Ser Cys Thr Ser Pro
 980 985 990

Ala Pro Ser Pro Gly Glu Asp Ile Cys Leu Gly Leu His Thr Glu Glu
 995 1000 1005

Ala Leu Cys Ala Thr Gln Ala Cys Pro Glu Gly Trp Ser Pro Trp
 1010 1015 1020

Ser Glu Trp Ser Lys Cys Thr Asp Asp Gly Ala Gln Ser Arg Ser
 1025 1030 1035

Arg His Cys Glu Glu Leu Leu Pro Gly Ser Ser Ala Cys Ala Gly
 1040 1045 1050

Asn Ser Ser Gln Ser Arg Pro Cys Pro Tyr Ser Glu Ile Arg Val
 1055 1060 1065

Ile Leu Pro Ala Ser Ser Met Glu Glu Ala Thr Asp Cys Ala Gly
 1070 1075 1080

Phe Asn Leu Ile His Leu Val Ala Thr Gly Ile Ser Cys Phe Leu
 1085 1090 1095

Gly Ser Gly Leu Leu Thr Leu Ala Val Tyr Leu Ser Cys Gln His
 1100 1105 1110

Cys Gln Arg Gln Ser Gln Glu Ser Thr Leu Val His Pro Ala Thr
 1115 1120 1125

Pro Asn His Leu His Tyr Lys Gly Gly Gly Thr Pro Lys Asn Glu
 1130 1135 1140

Lys Tyr Thr Pro Met Glu Phe Lys Thr Leu Asn Lys Asn Asn Leu
 1145 1150 1155

Ile Pro Asp Asp Arg Ala Asn Phe Tyr Pro Leu Gln Gln Thr Asn
 1160 1165 1170

Val Tyr Thr Thr Thr Tyr Tyr Pro Ser Pro Leu Asn Lys His Ser
 1175 1180 1185

Phe Arg Pro Glu Ala Ser Pro Gly Gln Arg Cys Phe Pro Asn Ser
 1190 1195 1200

<210> 39
 <211> 1240
 <212> PRT
 <213> Homo sapiens

<400> 39
 Ala Ala Ala Pro Phe Pro Asp Arg Pro Pro Ala His Leu Val Ser Ser
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Arg Arg Ser Ala Pro Pro Gly Ser Arg Glu Pro Arg Gly Thr Gly His
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Leu His Pro Pro Leu Gly Val Ser Gly Ser Ser Trp Cys Leu Ala Cys
 35 40 45

Val Ser Trp Met Pro Cys Gly Phe Ser Pro Ser Pro Val Ala His His
 50 55 60

Leu Val Pro Gly Pro Pro Asp Thr Pro Ala Gln Gln Leu Arg Cys Gly
 65 70 75 80

Trp Thr Val Gly Gly Trp Leu Leu Ser Leu Val Arg Gly Arg Lys Pro
 85 90 95

Ser Gly Asp Phe Glu Trp Arg Gln Gly Trp Arg Gly Pro Gly Glu Glu
 100 105 110

Asp Trp Pro Glu Ser Pro Ser Pro Lys Val Leu Met Asp Ser Ala Gly
 115 120 125

Gly Leu Leu Pro Cys Leu Pro Pro Gly Ala Arg Thr Ala Glu Gly Pro
 130 135 140

Ile Met Val Leu Ala Gly Pro Leu Ala Val Ser Leu Leu Leu Pro Ser
 145 150 155 160

Leu Thr Leu Leu Val Ser His Leu Ser Ser Ser Gln Asp Val Ser Ser
 165 170 175

Glu Pro Ser Ser Glu Gln Gln Leu Cys Ala Leu Ser Lys His Pro Thr
 180 185 190

Val Ala Phe Glu Asp Leu Gln Pro Trp Val Ser Asn Phe Thr Tyr Pro
 195 200 205

Gly Ala Arg Asp Phe Ser Gln Leu Ala Leu Asp Pro Ser Gly Asn Gln
 210 215 220

Leu Ile Val Gly Ala Arg Asn Tyr Leu Phe Arg Leu Ser Leu Ala Asn
 225 230 235 240

Val Ser Leu Leu Gln Ala Thr Glu Trp Ala Ser Ser Glu Asp Thr Arg
 245 250 255

Arg Ser Cys Gln Ser Lys Gly Lys Thr Glu Glu Glu Cys Gln Asn Tyr
 260 265 270

Val Arg Val Leu Ile Val Ala Gly Arg Lys Val Phe Met Cys Gly Thr
 275 280 285

Asn Ala Phe Ser Pro Met Cys Thr Ser Arg Gln Val Gly Asn Leu Ser
 290 295 300

Arg Thr Thr Glu Lys Ile Asn Gly Val Ala Arg Cys Pro Tyr Asp Pro
 305 310 315 320

Arg His Asn Ser Thr Ala Val Ile Ser Ser Gln Gly Glu Leu Tyr Ala
 325 330 335

Ala Thr Val Ile Asp Phe Ser Gly Arg Asp Pro Ala Ile Tyr Arg Ser
 340 345 350

Leu Gly Ser Gly Pro Pro Leu Arg Thr Ala Gln Tyr Asn Ser Lys Trp
 355 360 365

Leu Asn Glu Pro Asn Phe Val Ala Ala Tyr Asp Ile Gly Leu Phe Ala
 370 375 380

Tyr Phe Leu Arg Glu Asn Ala Val Glu His Asp Cys Gly Arg Thr

385	390	395	400
Val Tyr Ser Arg Val Ala Arg Val Cys Lys Asn Asp Val Gly Gly Arg			
405	410	415	
Phe Leu Leu Glu Asp Thr Trp Thr Thr Phe Met Lys Ala Arg Leu Asn			
420	425	430	
Cys Ser Arg Pro Gly Glu Val Pro Phe Tyr Tyr Asn Glu Leu Gln Ser			
435	440	445	
Ala Phe His Leu Pro Glu Gln Asp Leu Ile Tyr Gly Val Phe Thr Thr			
450	455	460	
Asn Val Asn Ser Ile Ala Ala Ser Ala Val Cys Ala Phe Asn Leu Ser			
465	470	475	480
Ala Ile Ser Gln Ala Phe Asn Gly Pro Phe Arg Tyr Gln Glu Asn Pro			
485	490	495	
Arg Ala Ala Trp Leu Pro Ile Ala Asn Pro Ile Pro Asn Phe Gln Cys			
500	505	510	
Gly Thr Leu Pro Glu Thr Gly Pro Asn Glu Asn Leu Thr Glu Arg Ser			
515	520	525	
Leu Gln Asp Ala Gln Arg Leu Phe Leu Met Ser Glu Ala Val Gln Pro			
530	535	540	
Val Thr Pro Glu Pro Cys Val Thr Gln Asp Ser Val Arg Phe Ser His			
545	550	555	560
Leu Val Val Asp Leu Val Gln Ala Lys Asp Thr Leu Tyr His Val Leu			
565	570	575	
Tyr Ile Gly Thr Glu Ser Gly Thr Ile Leu Lys Ala Leu Ser Thr Ala			
580	585	590	
Ser Arg Ser Leu His Gly Cys Tyr Leu Glu Glu Leu His Val Leu Pro			
595	600	605	
Pro Gly Arg Arg Glu Pro Leu Arg Ser Leu Arg Ile Leu His Ser Ala			
610	615	620	
Arg Ala Leu Phe Val Gly Leu Arg Asp Gly Val Leu Arg Val Pro Leu			
625	630	635	640
Glu Arg Cys Ala Ala Tyr Arg Ser Gln Gly Ala Cys Leu Gly Ala Arg			
645	650	655	
Asp Pro Tyr Cys Gly Trp Asp Gly Lys Gln Gln Arg Cys Ser Thr Leu			
660	665	670	
Glu Asp Ser Ser Asn Met Ser Leu Trp Thr Gln Asn Ile Thr Ala Cys			
675	680	685	
Pro Val Arg Asn Val Thr Arg Asp Gly Gly Phe Gly Pro Trp Ser Pro			
690	695	700	
Trp Gln Pro Cys Glu His Leu Asp Gly Asp Asn Ser Gly Ser Cys Leu			
705	710	715	720

Cys Arg Ala Arg Ser Cys Asp Ser Pro Arg Pro Arg Cys Gly Gly Leu
 725 730 735

Asp Cys Leu Gly Pro Ala Ile His Ile Ala Asn Cys Ser Arg Asn Gly
 740 745 750

Gly Arg Gly Pro Arg Gly Ala Ser Trp Ala Ala Val Gln Ala Arg Pro
 755 760 765

Val Ala Ser Gly Phe Gln Val Arg Gln Arg Ser Cys Ser Asn Pro Ala
 770 775 780

Pro Arg His Gly Gly Arg Ile Cys Val Gly Lys Ser Arg Glu Glu Arg
 785 790 795 800

Phe Cys Asn Glu Asn Thr Pro Cys Pro Val Pro Ile Phe Trp Ala Ser
 805 810 815

Trp Gly Ser Trp Ser Lys Cys Ser Ser Asn Cys Gly Gly Met Gln
 820 825 830

Ser Arg Arg Arg Ala Cys Glu Asn Gly Asn Ser Cys Leu Gly Cys Gly
 835 840 845

Val Glu Phe Lys Thr Cys Asn Pro Glu Gly Cys Pro Glu Val Arg Arg
 850 855 860

Asn Thr Pro Trp Thr Pro Trp Leu Pro Val Asn Val Thr Gln Gly Gly
 865 870 875 880

Ala Arg Gln Glu Gln Arg Phe Arg Phe Thr Cys Arg Ala Pro Leu Ala
 885 890 895

Asp Pro His Gly Leu Gln Phe Gly Arg Arg Arg Thr Glu Thr Arg Thr
 900 905 910

Cys Pro Ala Asp Gly Ser Gly Ser Cys Asp Thr Asp Ala Leu Val Glu
 915 920 925

Val Leu Leu Arg Ser Gly Ser Thr Ser Pro His Thr Val Ser Gly Gly
 930 935 940

Trp Ala Ala Trp Gly Pro Trp Ser Ser Cys Ser Arg Asp Cys Glu Leu
 945 950 955 960

Gly Phe Arg Val Arg Lys Arg Thr Cys Thr Asn Pro Glu Pro Arg Asn
 965 970 975

Gly Gly Leu Pro Cys Val Gly Asp Ala Ala Glu Tyr Gln Asp Cys Asn
 980 985 990

Pro Gln Ala Cys Pro Val Arg Gly Ala Trp Ser Cys Trp Thr Ser Trp
 995 1000 1005

Ser Pro Cys Ser Ala Ser Cys Gly Gly Gly His Tyr Gln Arg Thr
 1010 1015 1020

Arg Ser Cys Thr Ser Pro Ala Pro Ser Pro Gly Glu Asp Ile Cys
 1025 1030 1035

Leu Gly Leu His Thr Glu Glu Ala Leu Cys Ala Thr Gln Ala Cys
1040 1045 1050

Pro Glu Gly Trp Ser Pro Trp Ser Glu Trp Ser Lys Cys Thr Asp
1055 1060 1065

Asp Gly Ala Gln Ser Arg Ser Arg His Cys Glu Glu Leu Leu Pro
1070 1075 1080

Gly Ser Ser Ala Cys Ala Gly Asn Ser Ser Gln Ser Arg Pro Cys
1085 1090 1095

Pro Tyr Ser Glu Ile Arg Val Ile Leu Pro Ala Ser Ser Met Glu
1100 1105 1110

Glu Ala Thr Asp Cys Ala Gly Phe Asn Leu Ile His Leu Val Ala
1115 1120 1125

Thr Gly Ile Ser Cys Phe Leu Gly Ser Gly Leu Leu Thr Leu Ala
1130 1135 1140

Val Tyr Leu Ser Cys Gln His Cys Gln Arg Gln Ser Gln Glu Ser
1145 1150 1155

Thr Leu Val His Pro Ala Thr Pro Asn His Leu His Tyr Lys Gly
1160 1165 1170

Gly Gly Thr Pro Lys Asn Glu Lys Tyr Thr Pro Met Glu Phe Lys
1175 1180 1185

Thr Leu Asn Lys Asn Asn Leu Ile Pro Asp Asp Arg Ala Asn Phe
1190 1195 1200

Tyr Pro Leu Gln Gln Thr Asn Val Tyr Thr Thr Thr Tyr Tyr Pro
1205 1210 1215

Ser Pro Leu Asn Lys His Ser Phe Arg Pro Glu Ala Ser Pro Gly
1220 1225 1230

Gln Arg Cys Phe Pro Asn Ser
1235 1240